abcam

ab316935

Anti-ARMET/ARP antibody [EPR29115-74]

Recombinant | RabMAb | Advanced Validation | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR29115-74
Purification technique	Affinity purification Protein A
Concentration	0.539 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Recombinant fragment - Mouse
Dilution info	1/1000
Notes	-

Species	Human

Dilution info	1/1000
Notes	-

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	1/1000
Notes	-

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	1/500
Notes	-

Expected

Species	Human, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Recombinant fragment - Mouse
Dilution info	-
Notes	-

IP

Tested

Species	Mouse
Dilution info	1/30

Notes	-

Expected

Species	Human, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Recombinant fragment - Mouse
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/2000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Mouse
Dilution info	1/10000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Rat
Dilution info	1/10000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Not recommended

Species	Recombinant fragment - Mouse
Dilution info	-

Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	1/50
Notes	-

Expected

Species	Human, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Recombinant fragment - Mouse
Dilution info	-
Notes	-

IHC-Fr

Not recommended

Species	Mouse, Human, Rat, Recombinant fragment - Mouse
Dilution info	-
Notes	-

mIHC

Tested

Species	Mouse
Dilution info	1/500 - 1/20000
Notes	-

Species	Rat
Dilution info	1/500 - 1/20000
Notes	-

Species	Human
Dilution info	1/500 - 1/20000
Notes	-

Not recommended

Species	Recombinant fragment - Mouse
Dilution info	-
Notes	-

Target data

See full target information Manf

Function

Selectively promotes the survival of dopaminergic neurons of the ventral mid-brain. Modulates GABAergic transmission to the dopaminergic neurons of the substantia nigra. Enhances spontaneous, as well as evoked, GABAergic inhibitory postsynaptic currents in dopaminergic neurons. Inhibits cell proliferation and endoplasmic reticulum (ER) stress-induced cell death. Retained in the ER/sarcoplasmic reticulum (SR) through association with the endoplasmic reticulum chaperone protein HSPA5 under normal conditions. Stabilizes HSPA5/BiP in its substrate-bound ADP state, which facilitates HSPA5/BiP incorporation into chaperone-client complexes during endoplasmic reticulum stress, its interaction with HSPA5/BiP inhibits ATP binding to HSPA5/BiP and subsequent nucleotide exchange (PubMed:30710085). As a result acts as a repressor of the unfolded protein response (UPR) pathway (PubMed:30710085). Up-regulated and secreted by the ER/SR in response to ER stress and hypoxia. Following secretion by the ER/SR, directly binds to 3-O-sulfogalactosylceramide, a lipid sulfatide in the outer cell membrane of target cells. Sulfatide binding promotes its cellular uptake by endocytosis, and is required for its role in alleviating ER stress and cell toxicity under hypoxic and ER stress conditions. Essential for embryonic lung development (PubMed:30543055). Required for the correct postnatal temporal and structural development of splenic white pulp (PubMed:38159526). Required for the repair-associated myeloid response in skeletal muscle, acts as a regulator of phenotypic transition towards prorepair macrophages in response to muscle injury and as a result limits excessive proinflammatory signaling (PubMed:37118549). Represses RELA expression and therefore NF-kB signaling in the myocardium, as a result limits macrophage infiltration of injured tissue and M1 macrophage differentiation in response to myocardial injury (PubMed:33939070). Required for endochondral ossification in long bones and the skull during postnatal development (PubMed:30543055).

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	ARMET also known as Arp is a 19 kDa protein known for its role in cellular stress responses. It is alternatively named MANF (Mesencephalic Astrocyte-derived Neurotrophic Factor) in some studies. This protein is widely expressed including in the brain liver and pancreas reflecting its involvement across different cellular environments. ARMET/ARP interacts with the endoplasmic reticulum to address misfolded protein loads and support cell survival under stress.
Biological function summary	ARMET plays a significant role in maintaining cellular homeostasis especially under stress conditions. It does not form a larger complex but functions as a standalone factor that aids in the proper folding of proteins within the endoplasmic reticulum. Additionally ARMET has protective effects on dopaminergic neurons which are

	critical for neuromolecular processes. This protein has connections to cellular survival pathways acting as a neurotrophic factor to support neuron maintenance and health.
Pathways	ARMET is an important player in the unfolded protein response (UPR) and the neuroprotective pathways. In these pathways ARMET interacts with other proteins involved in protein folding and stress responses such as BiP/GRP78. These interactions help prevent apoptosis and promote cell survival by ensuring that cells can cope with endoplasmic reticulum stress. The ability of ARMET to enhance neuronal survival links it to pathways important for neuroprotection.
Associated diseases and disorders	ARMET has been associated with neurodegenerative diseases such as Parkinson's disease and diabetes. In Parkinson's disease the survival-promoting effects of ARMET on dopaminergic neurons become vital potentially offering therapeutic targets. Connections between ARMET and diabetes surface through its regulation of beta-cell survival in the pancreas suggesting a role in maintaining insulin production and glucose homeostasis. In these diseases ARMET may interact with other proteins like proinsulin which holds significance for maintaining endocrine functions.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

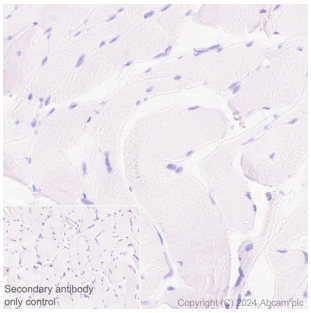
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

19 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ARMET/ARP antibody [EPR29115-74] (ab316935)

ARMET/ARP Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human skeletal muscle using rabbit Anti-ARMET/ARP antibody

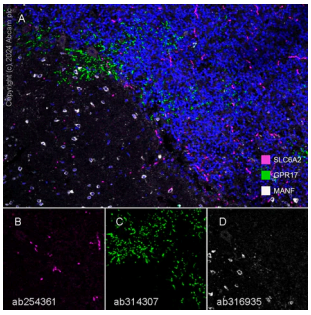
Immunohistochemical analysis of paraffin-embedded Human skeletal muscle tissue labeling ARMET/ARP with ab316935 at 1/2000 (0.253 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Low expression: no staining on human skeletal muscle. The section was incubated with ab316935 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



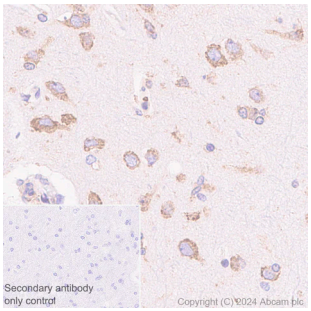
Multiplex immunohistochemistry - Anti-ARMET/ARP antibody [EPR29115-74] (ab316935)

Multiplex immunohistochemical analysis of formalin/PFA-fixed paraffin-embedded human cerebrum tissue section labelling Noradrenaline transporter with ab254361 at a 1/100 dilution (B), GPCR GPR17 with ab314307 at a 1/500 dilution (C), and ARMET/ARP with ab316935 at a 1/1000 dilution (D). Nuclear DNA was labeled with DAPI (shown in blue).

Panel A: merged staining of anti-Noradrenaline transporter (magenta; Opal™ 690), anti-GPCR GPR17 (green; Opal™ 520) and anti-ARMET/ARP (gray; Opal™ 570) on human cerebrum.
Panel B: anti-Noradrenaline transporter staining nerves in human cerebrum.
Panel C: anti-GPCR GPR17 staining oligodendrocytes in human cerebrum.
Panel D: anti-ARMET/ARP staining neurons in human cerebrum.
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

The section was incubated in three rounds of staining: in the order of ab254361, ab314307 and ab316935 for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ARMET/ARP antibody [EPR29115-74] (ab316935)

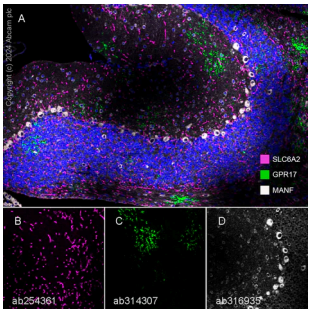
Immunohistochemical analysis of paraffin-embedded Human cerebrum tissue labeling ARMET/ARP with ab316935 at 1/2000 (0.253 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on neurons of human cerebrum. The section was incubated with ab316935 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



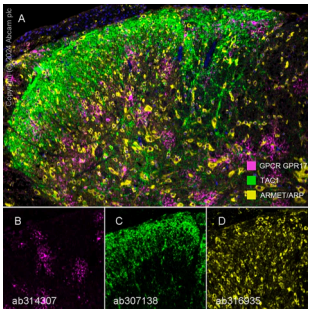
Multiplex immunohistochemistry - Anti-ARMET/ARP antibody [EPR29115-74] (ab316935)

Multiplex immunohistochemical analysis of formalin/PFA-fixed paraffin-embedded mouse cerebellum tissue section labelling Noradrenaline transporter with ab254361 at a 1/100 dilution (B), GPCR GPR17 with ab314307 at a 1/2000 dilution (C), and ARMET/ARP with ab316935 at a 1/20000 dilution (D). Nuclear DNA was labeled with DAPI (shown in blue).

Panel A: merged staining of anti-Noradrenaline transporter (magenta; Opal™ 690), anti-GPCR GPR17 (green; Opal™ 520) and anti-ARMET/ARP (gray; Opal™ 570) on mouse cerebellum.
Panel B: anti-Noradrenaline transporter staining nerves in mouse cerebellum.
Panel C: anti-GPCR GPR17 staining oligodendrocytes in mouse cerebellum.
Panel D: anti-ARMET/ARP staining neurons in mouse cerebellum.
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

The section was incubated in three rounds of staining: in the order of ab254361, ab314307 and ab316935 for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

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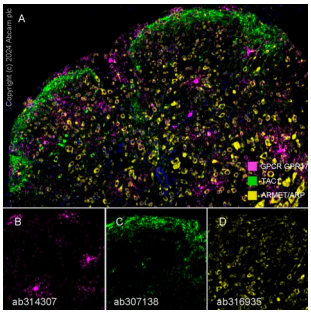
Multiplex immunohistochemistry - Anti-ARMET/ARP antibody [EPR29115-74] (ab316935)

Multiplex immunohistochemistry analysis of formalin/PFA-fixed paraffin-embedded rat spinal cord tissue section labelling GPCR GPR17 with ab314307 at 1/2000 dilution (B), TAC1 with ab307138 at 1/500 dilution (C), and ARMET/ARP with ab316935 at 1/20000 dilution (D). Nuclear DNA was labeled with DAPI (shown in blue). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

Panel A: merged staining of anti-GPCR GPR17 (magenta; Opal™ 690), anti-TAC1 (green; Opal™ 520) and anti-ARMET/ARP (yellow; Opal™ 570) on rat spinal cord.
Panel B: anti-GPCR GPR17 staining oligodendrocytes in rat spinal cord.
Panel C: anti-TAC1 staining posterior horns (sensory) in rat spinal cord.
Panel D: anti-ARMET/ARP staining neurons in rat spinal cord.

The section was incubated in three rounds of staining: in the order of ab314307, ab307138 and ab316935 for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope.



Multiplex immunohistochemistry - Anti-ARMET/ARP antibody [EPR29115-74] (ab316935)

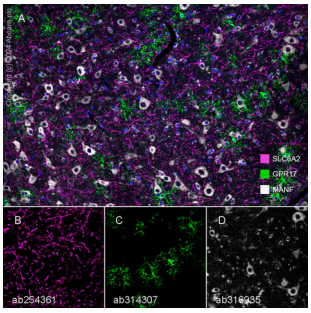
ARMET/ARP Multiplex immunohistochemistry staining of Mouse spinal cord using rabbit Anti-ARMET/ARP antibody

Multiplex immunohistochemistry analysis of formalin/PFA-fixed paraffin-embedded mouse spinal cord tissue section labelling GPCR GPR17 with ab314307 at 1/2000 dilution (B), TAC1 with ab307138 at 1/500 dilution (C), and ARMET/ARP with ab316935 at 1/20000 (D). Nuclear DNA was labeled with DAPI (shown in blue). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

Panel A: merged staining of anti-GPCR GPR17 (magenta; Opal™ 690), anti-TAC1 (green; Opal™ 520) and anti-ARMET/ARP (yellow; Opal™ 570) on mouse spinal cord.
Panel B: anti-GPCR GPR17 staining oligodendrocytes in mouse spinal cord.
Panel C: anti-TAC1 staining posterior horns (sensory) in mouse spinal cord.
Panel D: anti-ARMET/ARP staining neurons in mouse spinal cord.

The section was incubated in three rounds of staining: in the order of ab314307, ab307138 and ab316935 for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope.



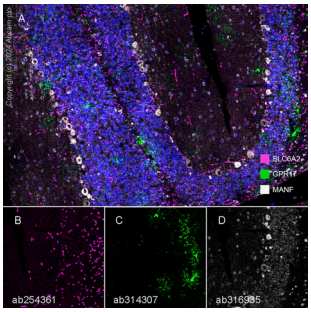
Multiplex immunohistochemistry - Anti-ARMET/ARP antibody [EPR29115-74] (ab316935)

Multiplex immunohistochemical analysis of formalin/PFA-fixed paraffin-embedded mouse cerebrum tissue section labelling Noradrenaline transporter with ab254361 at a 1/100 dilution (B), GPCR GPR17 with ab314307 at a 1/2000 dilution (C), and ARMET/ARP with ab316935 at a 1/20000 dilution (D). Nuclear DNA was labeled with DAPI (shown in blue).

Panel A: merged staining of anti-Noradrenaline transporter (magenta; Opal™ 690), anti-GPCR GPR17 (green; Opal™ 520) and anti-ARMET/ARP (gray; Opal™ 570) on mouse cerebrum.
Panel B: anti-Noradrenaline transporter staining nerves in mouse cerebrum.
Panel C: anti-GPCR GPR17 staining oligodendrocytes in mouse cerebrum.
Panel D: anti-ARMET/ARP staining neurons in mouse cerebrum.
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

The section was incubated in three rounds of staining: in the order of ab254361, ab314307 and ab316935 for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

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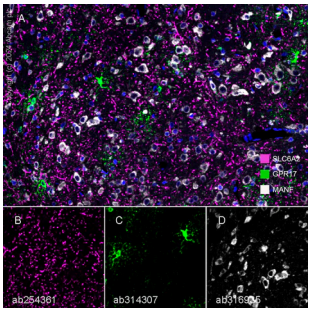
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Multiplex immunohistochemical analysis of formalin/PFA-fixed paraffin-embedded rat cerebellum tissue section labelling Noradrenaline transporter with ab254361 at a 1/100 dilution (B), GPCR GPR17 with ab314307 at a 1/2000 dilution (C), and ARMET/ARP with ab316935 at a 1/20000 dilution (D). Nuclear DNA was labeled with DAPI (shown in blue).

Panel A: merged staining of anti-Noradrenaline transporter (magenta; Opal™ 690), anti-GPCR GPR17 (green; Opal™ 520) and anti-ARMET/ARP (gray; Opal™ 570) on rat cerebellum.
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Panel C: anti-GPCR GPR17 staining oligodendrocytes in rat cerebellum.
Panel D: anti-ARMET/ARP staining neurons in rat cerebellum.
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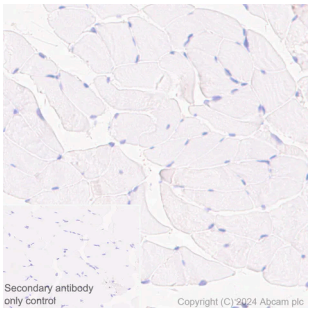
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ARMET/ARP antibody [EPR29115-74] (ab316935)

ARMET/ARP Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse skeletal muscle using rabbit Anti-ARMET/ARP antibody

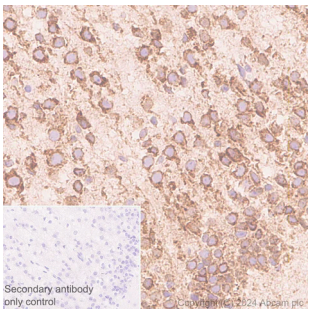
Immunohistochemical analysis of paraffin-embedded Mouse skeletal muscle tissue labeling ARMET/ARP with ab316935 at 1/10000 (0.051 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Low expression: no staining on mouse skeletal muscle. The section was incubated with ab316935 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ARMET/ARP antibody [EPR29115-74] (ab316935)

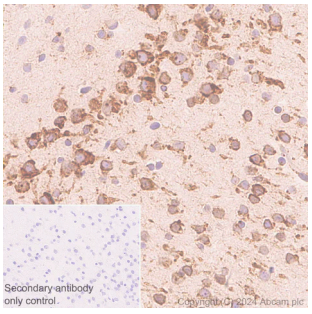
Immunohistochemical analysis of paraffin-embedded Mouse P5 cerebrum tissue labeling ARMET/ARP with ab316935 at 1/10000 (0.051 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on neurons of mouse cerebrum (PMID: 18718866). The section was incubated with ab316935 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ARMET/ARP antibody [EPR29115-74] (ab316935)

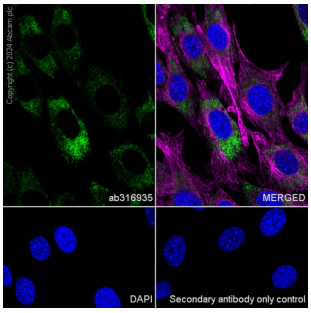
Immunohistochemical analysis of paraffin-embedded Rat P5 cerebrum tissue labeling ARMET/ARP with ab316935 at 1/10000 (0.051 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on neurons of rat P5 cerebrum. The section was incubated with ab316935 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



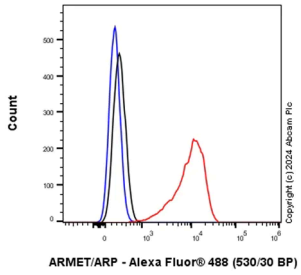
Immunocytochemistry/ Immunofluorescence - Anti-ARMET/ARP antibody [EPR29115-74] (ab316935)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized NIH/3T3 (mouse embryonic fibroblast) cells labellingARMET/ARP with ab316935 at 1/50 (10.1 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 (2 ug/ml) dilution.

Confocal image showing cytoplasmic staining in NIH/3T3 cell line (shown in green). The counterstain was observed in magenta. Nuclear DNA was labeled with DAPI (shown in blue). Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 (2.5 ug/ml) dilution. The Nuclear counterstain was DAPI.

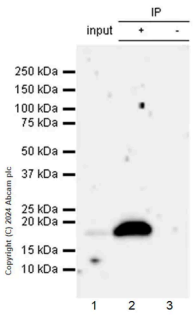
Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 ug/ml) dilution.



Flow Cytometry (Intracellular) - Anti-ARMET/ARP antibody [EPR29115-74] (ab316935)

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized NIH/3T3 (mouse embryonic fibroblast) cells labelling ARMET/ARP with ab316935 at 1/500 dilution (0.1 ug)/Red (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue).

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-ARMET/ARP antibody [EPR29115-74] (ab316935)

ARMET/ARP was immunoprecipitated from 0.35 mg NIH/3T3 (mouse embryonic fibroblast) whole cell lysate with ab316935 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab316935 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(ab131366) was used at 1/5000 dilution.

Lane 1: NIH/3T3 (mouse embryonic fibroblast) whole cell lysate
Lane 2: ab316935 IP in NIH/3T3 (mouse embryonic fibroblast) whole cell lysate
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab316935 in NIH/3T3 whole cell lysate

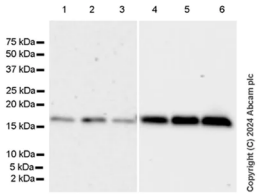
All lanes:
Immunoprecipitation - Anti-ARMET/ARP antibody [EPR29115-74] (ab316935) at 1/30 dilution

All lanes:
NIH/3T3 (mouse embryonic fibroblast) whole cell lysate

Secondary

All lanes:
Immunoprecipitation - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/5000 dilution

Exposure time: 180s



Western blot - Anti-ARMET/ARP antibody [EPR29115-74] (ab316935)

ARMET/ARP Western blot staining using rabbit Anti-ARMET/ARP antibody

Exposure time: Lanes 1-3: 180 seconds; Lanes 4-6: 26 seconds.

All lanes:
Western blot - Anti-ARMET/ARP antibody [EPR29115-74] (ab316935) at 1/1000 dilution

Lane 1:
HeLa (human cervical adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Lane 2:
SH-SY5Y (human neuroblastoma epithelial cell) whole cell lysate at 20 µg

Lane 3:
U-87 MG (human glioblastoma-astrocytoma epithelial cell) whole cell lysate at 20 µg

Lane 4:
NIH/3T3 (mouse embryonic fibroblast) whole cell lysate at 20 µg

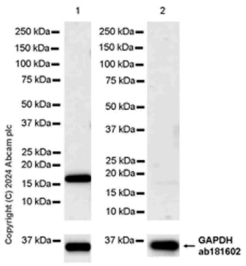
Lane 5:
Neuro-2a (mouse neuroblastoma neuroblast) whole cell lysate at 20 µg

Lane 6:
C6 (rat glial tumor glial cell) whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Observed band size: 18 kDa



Western blot - Anti-ARMET/ARP antibody [EPR29115-74] (ab316935)

ARMET/ARP Western blot staining using rabbit Anti-ARMET/ARP antibody

Low expression: skeletal muscle (PMID: 31781038).

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

All lanes:
Western blot - Anti-ARMET/ARP antibody [EPR29115-74] (ab316935) at 1/1000 dilution

Lane 1:
Human tonsil tissue lysate at 20 µg

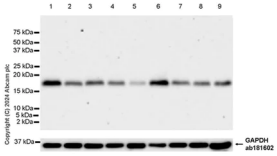
Lane 2:
Human skeletal muscle tissue lysate at 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Observed band size: 18 kDa, 36 kDa

Exposure time: 180s



Western blot - Anti-ARMET/ARP antibody [EPR29115-74] (ab316935)

ARMET/ARP Western blot staining using rabbit Anti-ARMET/ARP antibody

Low expression: brain, cerebral cortex, heart, skeletal muscle (PMID: 24587361; PMID:31781038).

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

All lanes:
Western blot - Anti-ARMET/ARP antibody [EPR29115-74] (ab316935) at 1/1000 dilution

Lane 1:
Mouse P5 brain tissue lysate at 20 µg

Lane 2:
Mouse brain tissue lysate at 20 µg

Lane 3:
Mouse cerebral cortex tissue lysate at 20 µg

Lane 4:
Mouse heart tissue lysate at 20 µg

Lane 5:
Mouse skeletal muscle tissue lysate at 20 µg

Lane 6:
Rat P5 brain tissue lysate at 20 µg

Lane 7:
Rat brain tissue lysate at 20 µg

Lane 8:
Rat heart tissue lysate at 20 µg

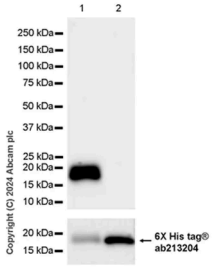
Lane 9:
Rat skeletal muscle tissue lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Observed band size: 18 kDa, 36 kDa

Exposure time: 102s



Western blot - Anti-ARMET/ARP antibody [EPR29115-74] (ab316935)

ARMET/ARP Western blot staining using rabbit Anti-ARMET/ARP antibody

This antibody does not cross-react with mouse CDNF.

In Western blot, Anti-6X His tag® antibody [EPR20547] - ChIP Grade (ab213204) staining at 1/5000 dilution.

All lanes:
Western blot - Anti-ARMET/ARP antibody [EPR29115-74] (ab316935) at 1/1000 dilution

Lane 1:
His-tagged mouse MANF recombinant protein at 10 ng

Lane 2:
His-tagged mouse CDNF recombinant protein at 10 ng

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Observed band size: 18 kDa

Exposure time: 26s

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.