abcam

ab271094

Anti-Rab 6A + Rab 6D + Ral-A antibody [EPR24472-24]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	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	EPR24472-24
Purification technique	Affinity purification Protein A
Concentration	0.592 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Transfected cell lysate - Human
Dilution info	1/1000
Notes	-

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	1/1000
Notes	-

Species	Human
Dilution info	1/1000
Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	1/50
Notes	-

Species	Human
Dilution info	1/50
Notes	-

Expected

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

Not recommended

Species	Transfected cell lysate - Human
Dilution info	-
Notes	-

IP

Tested

Species	Mouse
Dilution info	1/30
Notes	-

Species	Human
Dilution info	1/30
Notes	-

Expected

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

Not recommended

Species	Transfected cell lysate - Human
Dilution info	-
Notes	-

IHC-Fr

Not recommended

Species	Mouse, Rat, Human, Transfected cell lysate - Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Mouse

Dilution info	1/50
Notes	-

Species	Human
Dilution info	1/50
Notes	-

Expected

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

Not recommended

Species	Transfected cell lysate - Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	1/2000
Notes	-

Species	Rat
Dilution info	1/2000
Notes	-

Species	Human
Dilution info	1/2000
Notes	-

Not recommended

Species	Transfected cell lysate - Human
Dilution info	-
Notes	-

Target data

See full target information RAB6A

Function	The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes (PubMed:25962623). Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion (PubMed:25962623). RAB6A acts as a regulator of COPI-independent retrograde transport from the Golgi apparatus towards the endoplasmic reticulum (ER) (PubMed:25962623). Has a low GTPase activity (PubMed:25962623). Recruits VPS13B to the Golgi membrane (PubMed:25492866). Plays a role in neuron projection development (Probable).

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	Rab 6A also known as Ras-related protein Rab-6A is a member of the Rab family of small GTPases and has a molecular weight of approximately 24 kDa. This protein plays an essential role in intracellular transport mechanisms particularly overseeing the trafficking of proteins and lipids between the Golgi apparatus and the endoplasmic reticulum. Rab 6A is expressed in various tissues but is found predominantly in neuronal tissues where it has vital functions.
Biological function summary	This protein is involved in regulating membrane trafficking and maintains Golgi apparatus structure. Rab 6A engages with several other proteins to form complexes necessary for the vesicular transport processes. It aids in coordinating the interactions between transport vesicles and their target membranes directly impacting cellular homeostasis and protein export.
Pathways	Rab 6A operates significantly in the secretory pathway as well as the Golgi retrograde transport pathway. Within the secretory pathway it directly affects protein sorting and recycling. Additionally Rab 6A interacts with proteins such as Bicaudal-D and dynactin which link it to the recruitment and movement of vesicular cargo along the microtubules integrating it into the broader network of intracellular pathway regulation.
Associated diseases and disorders	Rab 6A has connections with neurological conditions. Its dysfunction or misregulation can impact neurodegenerative diseases such as Alzheimer's disease by disrupting protein processing and transport. Rab 6A interacts with amyloid precursor protein-processing pathways emphasizing its role in disease pathways. Also Rab 6A is linked to disorders affecting the Golgi apparatus a critical site for protein post-translational modification and trafficking within cells.

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.

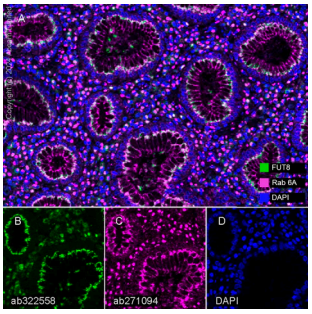
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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17 product images



Multiplex immunohistochemistry - Anti-Rab 6A + Rab 6D + Ral-A antibody [EPR24472-24] (ab271094)

Rab 6A + Rab 6D + Ral-A Multiplex immunohistochemistry staining of Human stomach using rabbit Anti-Rab 6A + Rab 6D + Ral-A antibody

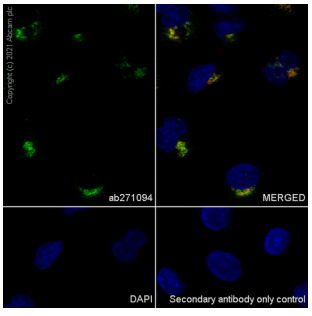
Multiplex immunohistochemistry analysis of formalin/PFA-fixed paraffin-embedded human stomach tissue staining FUT8 with ab322558 at a 1:500 (1.026 ug/ml) dilution, ab271094 anti-Rab 6A + Rab 6D + Ral-A used at 1:2000 (0.296 ug/ml) dilution.

Panel A: merged staining of anti-FUT8 (green; Opal™520) and anti-Rab 6A + Rab 6D + Ral-A (magenta; Opal™570) on human stomach.
Panel B: anti-GUT8 showed granular staining in human stomach.
Panel C: ant-Rab 6A + Rab 6D + Ral-A showed granular staining in human stomach.
Panel D: Nuclear DNA was labeled with DAPI (shown in blue).

The section was incubated in three rounds of staining: in the order of ab322558 and ab271094 for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

Nuclear counter stain with DAPI.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

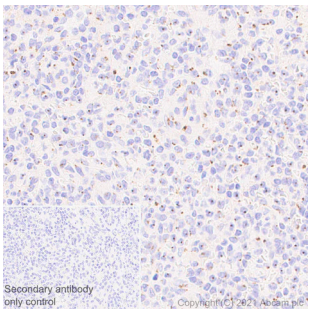


Immunocytochemistry/ Immunofluorescence - Anti-Rab 6A + Rab 6D + Ral-A antibody [EPR24472-24] (ab271094)

Rab 6A + Rab 6D + Ral-A Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Rab 6A + Rab 6D + Ral-A antibody

Immunofluorescent analysis of 100% methanol-fixed, 0.1% TritonX-100 permeabilized A549 cells labelling Rab 6A + Rab 6D + Ral-A with ab271094 at 1/50 (11.84 ug/ml) dilution, followed by ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing golgi staining in A549 cell line. ab169276 Anti-GM130 mouse polyclonal

antibody - cis-Golgi Marker was used to counterstain the GM-130 at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).
Secondary antibody only control: Secondary antibody is ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.

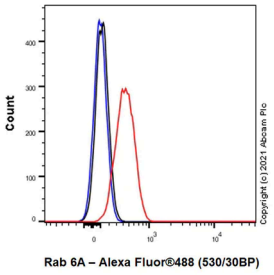


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rab 6A + Rab 6D + Ral-A antibody [EPR24472-24] (ab271094)

Rab 6A + Rab 6D + Ral-A Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Rab 6A + Rab 6D + Ral-A antibody

Immunohistochemical analysis of paraffin-embedded Human spleen tissue labelling Rab 6A + Rab 6D + Ral-A with ab271094 at 1/2000 (0.296 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Granular cytoplasmic staining on human spleen. The section was incubated with ab271094 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).

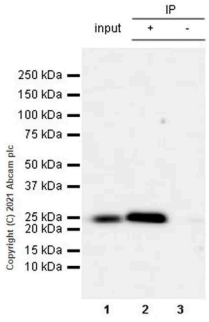
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Flow Cytometry (Intracellular) - Anti-Rab 6A + Rab 6D + Ral-A antibody [EPR24472-24] (ab271094)

Rab 6A + Rab 6D + Ral-A Flow Cytometry (Intracellular) staining using rabbit Anti-Rab 6A + Rab 6D + Ral-A antibody

Flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized A549 (Human lung carcinoma epithelial cell) cells labelling Rab 6A + Rab 6D + Ral-A with ab271094 at 1/50 dilution (1ug) (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). A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-Rab 6A + Rab 6D + Ral-A antibody [EPR24472-24] (ab271094)

Rab 6A was immunoprecipitated from 0.35 mg A549 (human lung carcinoma epithelial cell) whole cell lysate with ab271094 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab271094 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366) was used at 1/5000 dilution.
Lane 1: A549 (human lung carcinoma epithelial cell) whole cell lysate 10 ug

Lane 2: ab271094 IP in A549 whole cell lysate

Lane 3:Rabbit monoclonal IgG (ab172730) instead of ab271094 in A549 whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

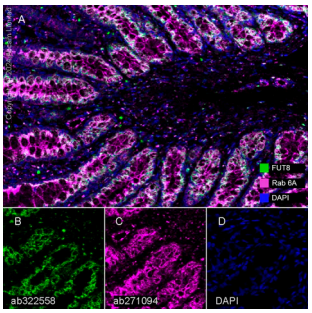
Exposure time: 10 seconds.

All lanes:

Immunoprecipitation - Anti-Rab 6A + Rab 6D + Ral-A antibody [EPR24472-24] (ab271094)

Predicted band size: 24 kDa

Observed band size: 24 kDa



Multiplex immunohistochemistry - Anti-Rab 6A + Rab 6D + Ral-A antibody [EPR24472-24] (ab271094)

Rab 6A + Rab 6D + Ral-A Multiplex immunohistochemistry staining of Rat colon using rabbit Anti-Rab 6A + Rab 6D + Ral-A antibody

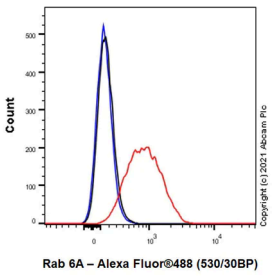
Multiplex immunohistochemistry analysis of formalin/PFA-fixed paraffin-embedded rat colon tissue staining FUT8 with ab322558 at a 1:500 (1.026 ug/ml) dilution, ab271094 anti-Rab 6A + Rab 6D + Ral-A used at 1:2000 (0.296 ug/ml) dilution.

Panel A: merged staining of anti-FUT8 (green; Opal™520) and anti-Rab 6A + Rab 6D + Ral-A (magenta; Opal™570) on rat colon.
Panel B: anti-GUT8 showed granular staining in rat colon.
Panel C: ant-Rab 6A + Rab 6D + Ral-A showed granular staining in rat colon.
Panel D: Nuclear DNA was labeled with DAPI (shown in blue).

The section was incubated in three rounds of staining: in the order of ab322558 and ab271094 for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

Nuclear counter stain with DAPI.

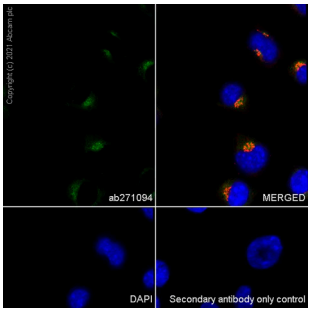
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Flow Cytometry (Intracellular) - Anti-Rab 6A + Rab 6D + Ral-A antibody [EPR24472-24] (ab271094)

Rab 6A + Rab 6D + Ral-A Flow Cytometry (Intracellular) staining using rabbit Anti-Rab 6A + Rab 6D + Ral-A antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Neuro-2a (Mouse neuroblastoma neuroblast) cells labelling Rab 6A + Rab 6D + Ral-A with ab271094 at 1/50 dilution (1ug) (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). A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as the secondary antibody.

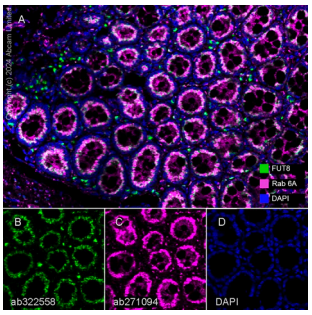


Immunocytochemistry/ Immunofluorescence - Anti-Rab 6A + Rab 6D + Ral-A antibody [EPR24472-24] (ab271094)

Rab 6A + Rab 6D + Ral-A Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Rab 6A + Rab 6D + Ral-A antibody

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polyclonal antibody - cis-Golgi Marker was used to counterstain GM130 at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).
Secondary antibody only control: Secondary antibody is ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.



Multiplex immunohistochemistry - Anti-Rab 6A + Rab 6D + Ral-A antibody [EPR24472-24] (ab271094)

Rab 6A + Rab 6D + Ral-A Multiplex immunohistochemistry staining of Mouse colon using rabbit Anti-Rab 6A + Rab 6D + Ral-A antibody

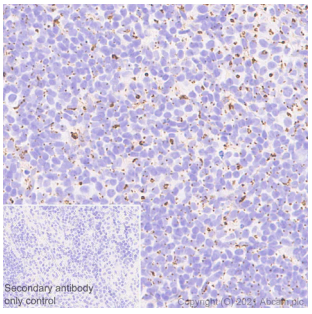
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Nuclear counter stain with DAPI.

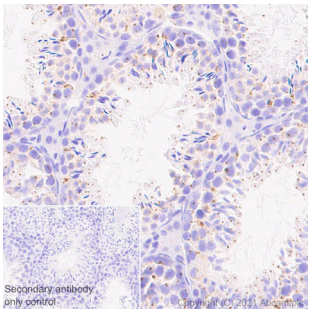
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rab 6A + Rab 6D + Ral-A antibody [EPR24472-24] (ab271094)

Immunohistochemical analysis of paraffin-embedded Rat spleen tissue labelling Rab 6A + Rab 6D + Ral-A with ab271094 at 1/2000 (0.296 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Granular cytoplasmic staining on rat spleen. The section was incubated with ab271094 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).

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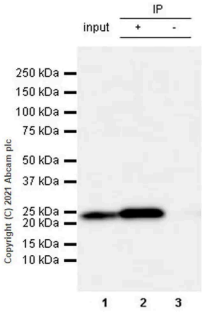


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rab 6A + Rab 6D + Ral-A antibody [EPR24472-24] (ab271094)

Rab 6A + Rab 6D + Ral-A Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Rab 6A + Rab 6D + Ral-A antibody

Immunohistochemical analysis of paraffin-embedded Mouse testis tissue labelling Rab 6A + Rab 6D + Ral-A with ab271094 at 1/2000 (0.296 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Granular cytoplasmic staining on mouse testis. The section was incubated with ab271094 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).

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Immunoprecipitation - Anti-Rab 6A + Rab 6D + Ral-A antibody [EPR24472-24] (ab271094)

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Lane 1: Neuro-2a (mouse neuroblastoma neuroblast) whole cell lysate 10 ug

Lane 2: ab271094 IP in Neuro-2a whole cell lysate

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab271094 in Neuro-2a whole cell lysate

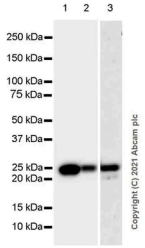
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 10 seconds.

All lanes:
Immunoprecipitation - Anti-Rab 6A + Rab 6D + Ral-A antibody [EPR24472-24] (ab271094)

Predicted band size: 24 kDa

Observed band size: 24 kDa



Western blot - Anti-Rab 6A + Rab 6D + Ral-A antibody [EPR24472-24] (ab271094)

Rab 6A + Rab 6D + Ral-A Western blot staining using rabbit Anti-Rab 6A + Rab 6D + Ral-A antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST.
Exposure time: Lane 1-2: 15 secondsLane 3: 48 seconds.

All lanes:
Western blot - Anti-Rab 6A + Rab 6D + Ral-A antibody [EPR24472-24] (ab271094) at 1/1000 dilution

Lane 1:
Human brain tissue lysate at 20 µg

Lane 2:
Human heart tissue lysate at 20 µg

Lane 3:
Human kidney tissue lysate at 20 µg

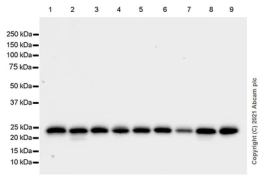
Secondary

All lanes:

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

Predicted band size: 24 kDa

Observed band size: 24 kDa



Western blot - Anti-Rab 6A + Rab 6D + Ral-A antibody [EPR24472-24] (ab271094)

Blocking and diluting buffer and concentration: 5% NFDM/TBST.
Exposure time: 26 seconds.

All lanes:
Western blot - Anti-Rab 6A + Rab 6D + Ral-A antibody [EPR24472-24] (ab271094) at 1/1000 dilution

Lane 1:
PC-3 (human prostate adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Lane 2:
HT-29 (human colorectal adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Lane 3:
HCT116 (human colorectal carcinoma epithelial cell) whole cell lysate at 20 µg

Lane 4:
HEK-293T (human embryonic kidney epithelial cell) whole cell lysate at 20 µg

Lane 5:
A549 (human lung carcinoma epithelial cell) whole cell lysate at 20 µg

Lane 6:
Neuro-2a (mouse neuroblastoma neuroblast) whole cell lysate at 20 µg

Lane 7:
NIH/3T3 (mouse embryonic fibroblast) whole cell lysate at 20 µg

Lane 8:
PC-12 (rat adrenal gland pheochromocytoma) whole cell lysate at 20 µg

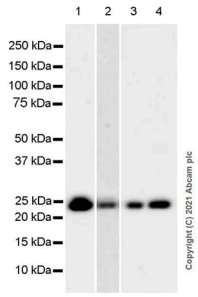
Lane 9:
C6 (rat glial tumor glial cell) whole cell lysate at 20 µg

Secondary

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

Predicted band size: 24 kDa

Observed band size: 24 kDa



Western blot - Anti-Rab 6A + Rab 6D + Ral-A antibody [EPR24472-24] (ab271094)

Rab 6A + Rab 6D + Ral-A Western blot staining using rabbit Anti-Rab 6A + Rab 6D + Ral-A antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST.
Exposure time: Lane 1, 3, 4: 48 secondsLane 2: 3 minutes.

All lanes:
Western blot - Anti-Rab 6A + Rab 6D + Ral-A antibody [EPR24472-24] (ab271094) at 1/1000 dilution

Lane 1:
Rat brain tissue lysate at 20 µg

Lane 2:
Rat heart tissue lysate at 20 µg

Lane 3:
Rat kidney tissue lysate at 20 µg

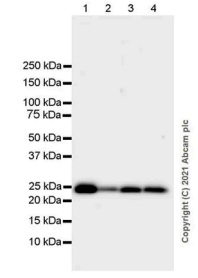
Lane 4:
Rat spleen tissue lysate at 20 µg

Secondary

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

Predicted band size: 24 kDa

Observed band size: 24 kDa



Western blot - Anti-Rab 6A + Rab 6D + Ral-A antibody [EPR24472-24] (ab271094)

Rab 6A + Rab 6D + Ral-A Western blot staining using rabbit Anti-Rab 6A + Rab 6D + Ral-A antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST.
Exposure time: 48 seconds.

All lanes:
Western blot - Anti-Rab 6A + Rab 6D + Ral-A antibody [EPR24472-24] (ab271094) at 1/1000 dilution

Lane 1:
Mouse brain tissue lysate at 20 µg

Lane 2:
Mouse heart tissue lysate at 20 µg

Lane 3:
Mouse kidney tissue lysate at 20 µg

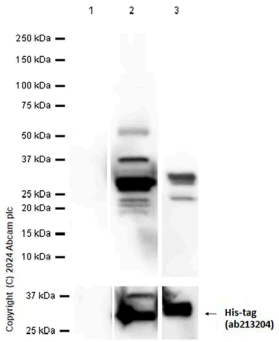
Lane 4:
Mouse spleen tissue lysate at 20 µg

Secondary

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

Predicted band size: 24 kDa

Observed band size: 24 kDa



Western blot - Anti-Rab 6A + Rab 6D + Ral-A antibody [EPR24472-24] (ab271094)

Blocking and diluting buffer and concentration: 5% NFDM /TBST
All lanes:
Western blot - Anti-Rab 6A + Rab 6D + Ral-A antibody [EPR24472-24] (ab271094) at 1/1000 dilution

Lane 1:
293T cells transfected with an empty vector containing a His tag whole cell lysate at 20 µg

Lane 2:
293T cells transfected with a human Rab6A expression vector containing a His-tag whole cell lysate at 20 µg

Lane 3:
293T cells transfected with a human Ral-A expression vector containing a His-tag whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 26 kDa

Exposure time: 1s

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