abcam

ab324195

Anti-IL23A antibody [EPR25909-4]

Recombinant | RabMAb | 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	EPR25909-4
Purification technique	Affinity purification Protein A
Concentration	0.527 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Not recommended

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Not recommended

Species	Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	1/500
Notes	-

Not recommended

Species	Human
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Human, Mouse
Dilution info	-
Notes	-

Target data

See full target information Il23a

Function	Associates with IL12B to form the pro-inflammatory cytokine IL-23 that plays different roles in innate and adaptive immunity (PubMed:11114383, PubMed:11390512, PubMed:16670770). Released by antigen-presenting cells such as dendritic cells or macrophages, binds to a heterodimeric receptor complex composed of IL12RB1 and IL23R to activate JAK2 and TYK2 which then phosphorylate the receptor to form a docking site leading to the phosphorylation of STAT3 and STAT4 (By similarity). This process leads to activation of several pathways including p38 MAPK or NF-kappa-B and promotes the production of pro-inflammatory cytokines such as interleukin-17A/IL17A (PubMed:19900478). In turn, participates in the early and effective intracellular bacterial clearance (PubMed:16157683). Promotes the expansion and survival of T-helper 17 cells, a CD4-positive helper T-cell subset that produces IL-17, as well as other IL-17-producing cells (PubMed:16648837).

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.

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

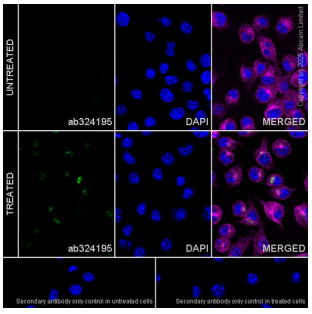
We do not recommend this combination. It is not covered by our product promise.

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.

6 product images



Immunocytochemistry/ Immunofluorescence - Anti-IL23A antibody [EPR25909-4] (ab324195)

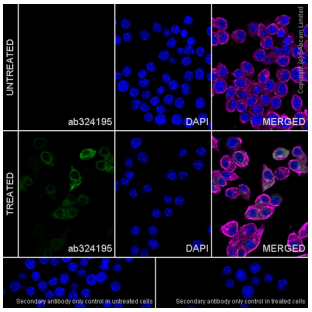
IL23A Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-IL23A antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized J774A.1(mouse reticulum cell sarcoma monocyte/macrophage) cells labelling IL23A with ab324195 at 1/1000 (0.514 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 (2 ug/ml) dilution (Green).

Confocal image showing increased cytoplasmic staining in J774A.1 cells treated with 100 ng/ml lipopolysaccharide (LPS) for 6 hours, with addition of brefeldin A (1 ug/ml) for the last 3 hours (shown in green). The counterstain was observed in magenta. Nuclear DNA was labelled 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 (Magenta).

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.



Immunocytochemistry/ Immunofluorescence - Anti-IL23A antibody [EPR25909-4] (ab324195)

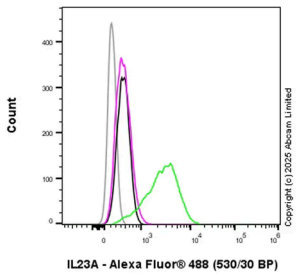
IL23A Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-IL23A antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized Raw 264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) cells labelling IL23A with ab324195 at 1/1000 (0.514 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 (2 ug/ml) dilution (Green).

Confocal image showing increased cytoplasmic staining in Raw264.7 cells treated with 100ng/ml lipopolysaccharide (LPS) for 6 hours, with addition of brefeldin A (1 ug/ml) for the last 3 hours (shown in green). The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue). Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

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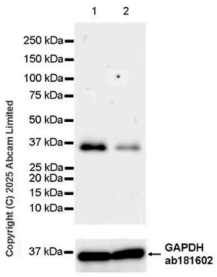


Flow Cytometry (Intracellular) - Anti-IL23A antibody [EPR25909-4] (ab324195)

IL23A Flow Cytometry (Intracellular) staining using rabbit Anti-IL23A antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized RAW 264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) treated with 100ng/ml LPS for 6hours then 1ug/ml BFA for 3hours (Green) / Untreated control (Magenta) cells labelling IL23A with ab324195 at 1/500 dilution (0.1ug) (Magenta and Green) compared with a Rabbit monoclonal IgG (ab172730) (Black) and (Grey) isotype control.

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



Western blot - Anti-IL23A antibody [EPR25909-4] (ab324195)

IL23A Western blot staining using rabbit Anti-IL23A antibody

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

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

All lanes:
Western blot - Anti-IL23A antibody [EPR25909-4] (ab324195) at 1/1000 dilution

Lane 1:
RAW 264.7 (mouse abelson murine leukemia virus-induced tumor macrophage) transfected with scrambled siRNA control, then treated with 100ng/ml LPS(Lipopolysaccharide) for 3 hours, 300ng/ml Brefeldin A/BFA was then added for additional 3 hours whole cell lysate at 20 µg

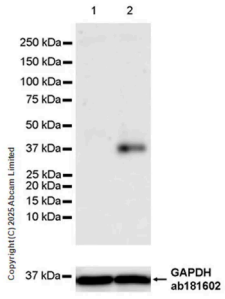
Lane 2:
RAW 264.7 transfected with siRNA specifically targeting IL23A, then treated with 100ng/ml LPS(Lipopolysaccharide) for 3 hours, 300ng/ml Brefeldin A/BFA was then added for additional 3 hours whole cell lysate at 20 µg

Secondary

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

Observed band size: 36 kDa

Exposure time: 180s



Western blot - Anti-IL23A antibody [EPR25909-4] (ab324195)

IL23A Western blot staining using rabbit Anti-IL23A antibody

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

This blot was developed using a high-sensitivity ECL substrate, allowing for the detection of proteins in the mid-femtogram range.

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

All lanes:
Western blot - Anti-IL23A antibody [EPR25909-4] (ab324195) at 1/1000 dilution

Lane 1:
Untreated J774A.1 (mouse reticulum cell sarcoma monocyte/macrophage) whole cell lysate at 20 µg

Lane 2:
J774A.1 treated with 100ng/ml LPS(Lipopolysaccharide) for 3 hours, 300ng/ml Brefeldin A/BFA was then added for additional 3 hours whole cell lysate at 20 µg

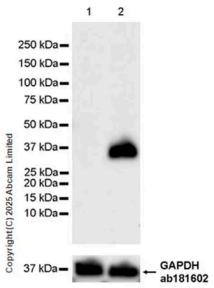
Secondary

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

Developed using the ECL technique.

Observed band size: 36 kDa

Exposure time: 180s



Western blot - Anti-IL23A antibody [EPR25909-4] (ab324195)

IL23A Western blot staining using rabbit Anti-IL23A antibody

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

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

All lanes:
Western blot - Anti-IL23A antibody [EPR25909-4] (ab324195) at 1/1000 dilution

Lane 1:
Untreated RAW 264.7 (mouse abelson murine leukemia virus-induced tumor macrophage) whole cell lysate at 40 µg

Lane 2:
RAW 264.7 treated with 100ng/ml LPS(Lipopolysaccharide) for 3 hours, 300ng/ml Brefeldin A/BFA was then added for additional 3 hours whole cell lysate at 40 µg

Secondary

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

Observed band size: 36 kDa

Exposure time: 92s

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