abcam

ab326571

Anti-IL-12 p40 antibody [EPR28679-579]

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	EPR28679-579
Purification technique	Affinity purification Protein A
Concentration	0.509 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt (Intra)

Tested

Species	Transfected cell line - Mouse
Dilution info	1/50
Notes	-

Species	Mouse

Dilution info	1/50
Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Not recommended

Species	Transfected cell line - Mouse
Dilution info	-
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Not recommended

Species	Transfected cell line - Mouse
Dilution info	-
Notes	-

Target data

See full target information Il12b

Function	Cytokine that can act as a growth factor for activated T and NK cells, enhance the lytic activity of NK/lymphokine-activated killer cells, and stimulate the production of IFN-gamma by resting PBMC. Associates with IL23A to form the IL-23

interleukin, a heterodimeric cytokine which functions in innate and adaptive immunity. IL-23 may constitute with IL-17 an acute response to infection in peripheral tissues. IL-23 binds to a heterodimeric receptor complex composed of IL12RB1 and IL23R, activates the Jak-Stat signaling cascade, stimulates memory rather than naive T-cells and promotes production of pro-inflammatory cytokines. IL-23 induces autoimmune inflammation and thus may be responsible for autoimmune inflammatory diseases and may be important for tumorigenesis.

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.

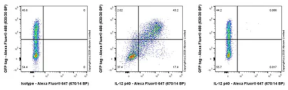
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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4 product images

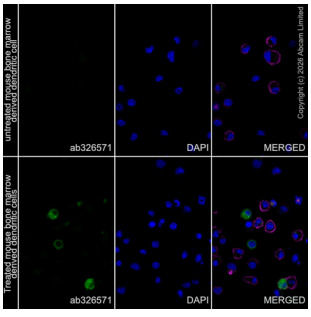


Flow Cytometry (Intracellular) - Anti-IL-12 p40 antibody [EPR28679-579] (ab326571)

IL-12 p40 Flow Cytometry (Intracellular) staining using rabbit Anti-IL-12 p40 antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized 293T cells transfected with a mouse IL12B expression vector containing a GFP-tag® (Middle) 293T cells transfected with an empty expression vector containing a GFP-tag® (Right) cells labelling IL-12 p40 with ab326571 at 1/50 dilution (1ug) / Middle and Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Goat anti-Rabbit IgG (Alexa Fluor® 647, ab150083) at 1/5000 dilution was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-IL-12 p40 antibody [EPR28679-579] (ab326571)

IL-12 p40 Immunocytochemistry/ Immunofluorescence staining of Mouse bone marrow derived dendritic cells induced by 1ug/ml LPS for 24 hours and 200ng/ml BFA for 4 hours using rabbit Anti-IL-12 p40 antibody

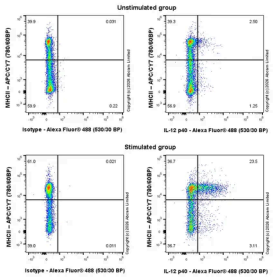
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized Mouse bone marrow derived dendritic cells induced by 1ug/ml LPS for 24 hours and 200ng/ml BFA for 4 hours Untreated mouse bone marrow derived dendritic cells cells labelling IL-12 p40 with ab326571 at 1/1000 (0.509 µg/ml) dilution , followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (Green).

Confocal image showing increased cytoplasmic staining in subsets of mouse bone marrow derived dendritic cells (shown in green) treated with 1ug/ml LPS for 24 hours then add 200 ng/ml BFA for 4

hours, showing weak staining in untreated mouse bone marrow derived dendritic cells. 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).

ab8878 Anti-CD11b Rat monoclonal antibody was used to counterstain tubulin at 1/200 dilution (Magenta). The Nuclear counterstain was DAPI (Blue).

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



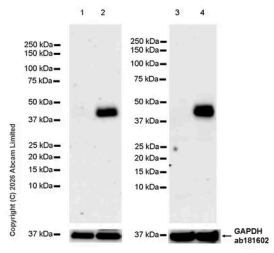
Flow Cytometry (Intracellular) - Anti-IL-12 p40 antibody [EPR28679-579] (ab326571)

IL-12 p40 Flow Cytometry (Intracellular) staining using rabbit Anti-IL-12 p40 antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 0.1% Tween-20 permeabilized Mouse bone marrow derived Dendritic cells induced by 1ug/ml LPS for 24 hours and 200ng/ml BFA for 4 hours (Lower left and right) Untreated mouse bone marrow derived Dendritic cells (Upper left and right) cells labelling IL-12 p40 with ab326571 at 1/50 dilution (1ug) / Upper right and Lower right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

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

Cells were co-stained with anti-CD11c conjugated to BV421 and anti-MHCII conjugated to APC/CY7, then fixed with 4% PFA for 10 min followed by intracellular staining. Gated on viable CD11c positive cells.



Western blot - Anti-IL-12 p40 antibody [EPR28679-579] (ab326571)

IL-12 p40 Western blot staining using rabbit Anti-IL-12 p40 antibody

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

The expression of IL12B is upregulated in response to LPS treatment (PMID: 38416039).

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) (1:200000) (36KDa).

All lanes:
Western blot - Anti-IL-12 p40 antibody [EPR28679-579] (ab326571) at 1/1000 dilution

Lane 1:
Untreated mouse spleen cell lysate at 80 µg

Lane 2:
Mouse spleen treated with 1ug/ml LPS and 1ug/ml BFA for 16h cell lysate at 80 µg

Lane 3:
Mouse bone marrow derived Dendritic cell lysate at 80 µg

Lane 4:
Mouse bone marrow derived Dendritic cells induced by 1ug/ml LPS for 24 hours and 200ng/ml BFA for 4 hours cell lysate at 80 µg

Secondary

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

Observed band size: 40 kDa, 36 kDa

Exposure time: 125s

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