abcam

ab133752

Anti-IL-12B antibody [EPR5739]

Recombinant | RabMAb

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	EPR5739
Purification technique	Affinity purification Protein A
Specificity	This antibody is unsuitable to detect endogenous IL-12B in WB.
Dissociation constant	4.3 x 10^{-10} M
Concentration	0.34 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Recombinant full length protein - Human

Dilution info	1/1000 - 1/10000
Notes	This antibody is unsuitable to detect endogenous IL12B in WB

Species	Human
Dilution info	1/1000 - 1/10000
Notes	This antibody is unsuitable to detect endogenous IL12B in WB

IHC-P

Not recommended

Species	Human, Recombinant full length protein - Human
Dilution info	-
Notes	-

IP

Not recommended

Species	Human, Recombinant full length protein - Human
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/100 - 1/250
Notes	-

Not recommended

Species	Recombinant full length protein - Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/300
Notes	-

Not recommended

Species	Recombinant full length protein - Human
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 conditions	+4°C
Appropriate long-term storage conditions	-20°C
Storage information	Stable for 12 months at -20°C

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

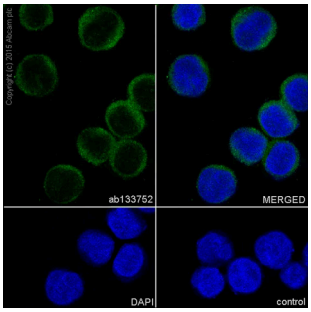
We do not recommend this combination. It is not covered by our product promise.

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.

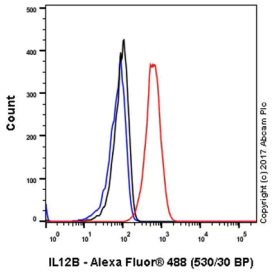
5 product images



Immunocytochemistry/ Immunofluorescence - Anti-IL-12B antibody [EPR5739] (ab133752)

IL-12B Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-IL-12B antibody

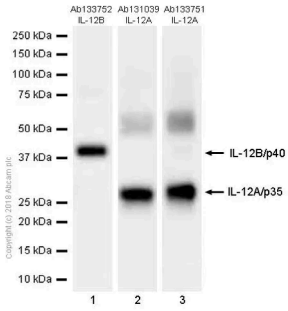
Immunocytochemistry/ Immunofluorescence analysis of MOLT-4 (Human lymphoblastic leukemia T lymphoblast) cells labeling IL-12B with Purified ab133752 at 1:100 dilution (3.3 µg/ml). Cells were fixed in 4% paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were not counterstained. Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Flow Cytometry (Intracellular) - Anti-IL-12B antibody [EPR5739] (ab133752)

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

Intracellular Flow Cytometry analysis of Jurkat (human acute T cell leukemia) cells labeling IL-12B (red) with ab133752 at a 1/2500 dilution. Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. A goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) was used as the secondary antibody at a 1/2000 dilution. Black - Rabbit monoclonal IgG (ab172730). Blue (unlabeled control) - Cells without incubation with the primary and secondary antibodies.



Western blot - Anti-IL-12B antibody [EPR5739] (ab133752)

The recombinant protein contains Human IL-12B (Ile23-Ser328) and Human IL-12A (Arg23-Ser219) connected by disulfide bond to be heterodimer. Under reducing conditions, the observed bands will be at 40 KD for IL-12B and 29 KD for IL-12A.
Lanes 1 - 3:
Western blot - Anti-IL-12A antibody [EPR5736] (ab133751) at 1/1000 dilution

Lanes 1 - 3:
Western blot - Anti-IL-12B antibody [EPR5739] (ab133752) at 1/1000 dilution

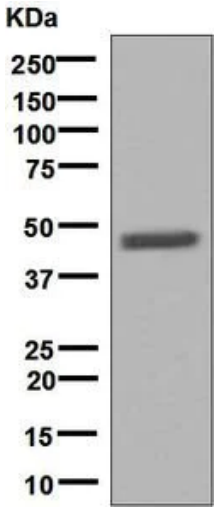
All lanes:
Human IL-12 recombinant protein at 15 µg

Secondary

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

Predicted band size: 25 kDa, 37 kDa

Observed band size: 29 kDa, 40 kDa



Western blot - Anti-IL-12B antibody [EPR5739] (ab133752)

This image was generated using the unpurified version of the product.
All lanes:
Western blot - Anti-IL-12B antibody [EPR5739] (ab133752) at 1/1000 dilution

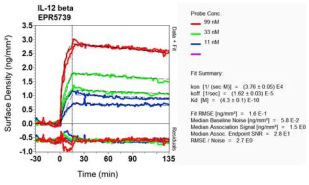
All lanes:
Human IL-12B recombinant protein at 0.01 µg

Secondary

All lanes:
Goat anti-Rabbit HRP at 1/2000 dilution

Predicted band size: 37 kDa

Observed band size: 40 kDa



OI-RD Scanning - Anti-IL-12B antibody [EPR5739] (ab133752)

We have systematically measured KD (the equilibrium dissociation constant between the antibody and its antigen), of more than 840 recombinant antibodies to assess not only their individual KD values but also to see the average affinity of antibody. Based on the comparison with published literature values for mouse monoclonal antibodies, Recombinant antibodies appear to be on average 1-2 order of magnitude higher affinity.

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