abcam

ab207181

Anti-IL-16 antibody [EPR19988]

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	EPR19988
Purification technique	Affinity purification Protein A
Concentration	0.628 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	1/30
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000
Notes	**Observed Mass of target (kDa)**: **80, 75-40**

ICC/IF

Tested

Species	Human
Dilution info	1/100
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/600
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/2000
Notes	-

Target data

See full target information IL16

Function Interleukin-16 stimulates a migratory response in CD4+ lymphocytes, monocytes, and eosinophils. Primes CD4+ T-cells for IL-2 and IL-15 responsiveness. Also induces T-lymphocyte expression of interleukin 2 receptor. Ligand for CD4. Isoform 1. May act as a scaffolding protein that anchors ion channels in the membrane.

Isoform 3 is involved in cell cycle progression in T-cells. Appears to be involved in transcriptional regulation of SKP2 and is probably part of a transcriptional repression complex on the core promoter of the SKP2 gene. May act as a scaffold for GABPB1 (the DNA-binding subunit the GABP transcription factor complex) and HDAC3 thus maintaining transcriptional repression and blocking cell cycle progression in resting T-cells.

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.

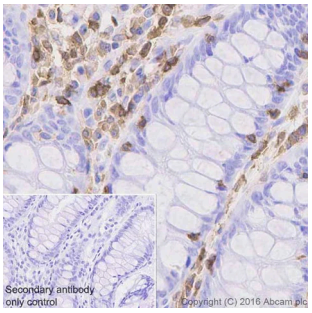
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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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7 product images

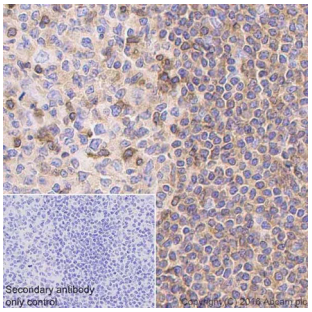


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IL-16 antibody [EPR19988] (ab207181)

IL-16 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-IL-16 antibody

Immunohistochemical analysis of paraffin-embedded human colon tissue labeling IL-16 with ab207181 at 1/2000 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasmic staining on stromal cells of human colon is observed [PMID: 11709514]. Counter stained with Hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

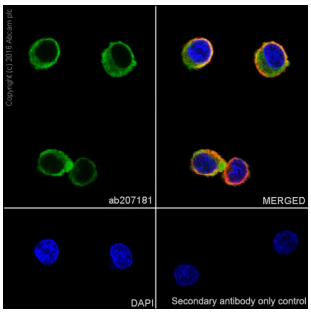


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IL-16 antibody [EPR19988] (ab207181)

IL-16 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-IL-16 antibody

Immunohistochemical analysis of paraffin-embedded human tonsil tissue labeling IL-16 with ab207181 at 1/2000 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasmic staining on human tonsil is observed [PMID: 10946273]. Counter stained with Hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

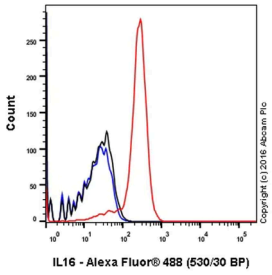


Immunocytochemistry/ Immunofluorescence - Anti-IL-16 antibody [EPR19988] (ab207181)

IL-16 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-IL-16 antibody

Immunofluorescent analysis of 4% paraformaldehyde-fixed 0.1% Triton X-100 permeabilized H9 (Human cutaneous T lymphocyte lymphoma cell line) cells labeling IL-16 with ab207181 at 1/100 dilution followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining on H9 cell line.
The nuclear counter stain is DAPI (blue). Tubulin is detected with ab195889 (Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594)) at 1/200 dilution (red).

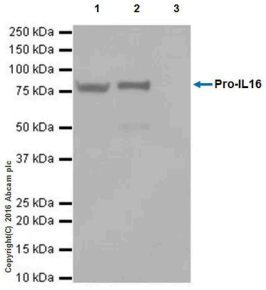
Secondary antibody only control: Used PBS instead of primary antibody secondary antibody is Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-IL-16 antibody [EPR19988] (ab207181)

IL-16 Flow Cytometry (Intracellular) staining using rabbit Anti-IL-16 antibody

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed H9 (Human cutaneous T lymphocyte lymphoma cell line) cells labeling IL-16with ab207181 at 1/600 dilution (red) compared with a rabbit monoclonal IgG isotype control (ab172730; black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (Alexa Fluorr® 488) at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-IL-16 antibody [EPR19988] (ab207181)

IL-16 was immunoprecipitated from 0.35 mg of H9 (Human cutaneous T lymphocyte lymphoma cell line) whole cell lysate with ab207181 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab207181 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/10000 dilution.
Lane 1: H9 whole cell lysate, 10 µg (Input).

Lane 2: ab207181 IP in H9 whole cell lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab207181 in H9 whole cell lysate.

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

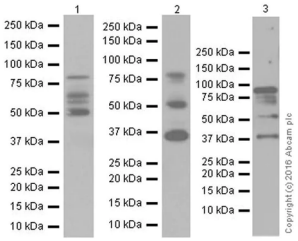
Exposure time: 10 seconds.

Note: The band at around 50kDa is a cleaved form of IL-16.

All lanes:
Immunoprecipitation - Anti-IL-16 antibody [EPR19988] (ab207181)

Predicted band size: 142 kDa

Observed band size: 37-80 kDa



Western blot - Anti-IL-16 antibody [EPR19988] (ab207181)

Blocking/Dilution buffer: 5% NFDM/TBST.
Exposure times: Lane 1: 5 seconds, Lane 2: 15 seconds, Lane 3: 3 minutes.

The band at 80 kDa is pro-IL-16 and the bands at 40-75 kDa are cleaved fragments. This is consistent with what has been described in the literature (PMID: 15187155, PMID: 9144227, PMID: 9743378, PMID: 14734747).

All lanes:
Western blot - Anti-IL-16 antibody [EPR19988] (ab207181) at 1/1000 dilution

Lane 1:
Human thymus tissue lysate at 10 µg

Lane 2:
Human spleen tissue lysate at 10 µg

Lane 3:
Human tonsil tissue lysate at 20 µg

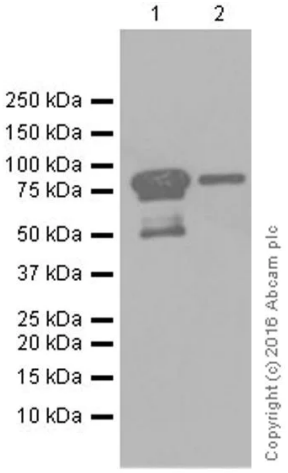
Secondary

Lanes 1 - 2:
Western blot - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/4000 dilution

Lane 3:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 142 kDa

Observed band size: 75-40 kDa, 80 kDa



Western blot - Anti-IL-16 antibody [EPR19988] (ab207181)

IL-16 Western blot staining using rabbit Anti-IL-16 antibody

Blocking/Dilution buffer: 5% NFDM/TBST.
The band at 80 kDa is pro-IL-16 and the bands at 40-75 kDa are cleaved fragments. This is consistent with what has been described in the literature (PMID: 15187155, PMID: 9144227, PMID: 9743378, PMID: 14734747).

All lanes:
Western blot - Anti-IL-16 antibody [EPR19988] (ab207181) at 1/1000 dilution

Lane 1:
H9 (Human cutaneous T lymphocyte lymphoma cell line) whole cell lysate at 10 µg

Lane 2:
Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate at 10 µg

Secondary

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

Predicted band size: 142 kDa

Observed band size: 75-40 kDa, 80 kDa

Exposure time: 3min

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