abcam

Product datasheet

Anti-IL-9 antibody [EPR23484-151] ab227037

Recombinant RabMAb

7 Images

Overview

Product name	Anti-IL-9 antibody [EPR23484-151]
Description	Rabbit monoclonal [EPR23484-151] to IL-9
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), ICC/IF, WB, IP **Unsuitable for:** IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: His-tagged mouse IL9 recombinant protein, Mouse and rat spleen, thymus lysates. ICC/IF: 293T cell. Flow Cyt (intra): 293T cell. IP: Mouse spleen lysate.
General notes	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 production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR23484-151

Isotype IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab227037 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/500.
ICC/IF		1/500.
WB		1/1000. Predicted molecular weight: 15 kDa.
IP		1/30.

Application notes Is unsuitable for IHC-P.

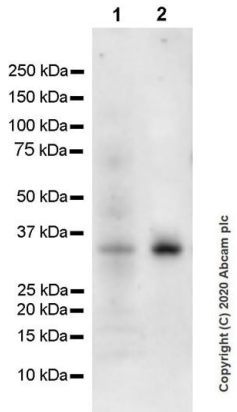
Target

Function Supports IL-2 independent and IL-4 independent growth of helper T-cells.

Sequence similarities Belongs to the IL-7/IL-9 family.

Cellular localization Secreted.

Images



Western blot - Anti-IL-9 antibody [EPR23484-151] (ab227037)

All lanes : Anti-IL-9 antibody [EPR23484-151] (ab227037) at 1/1000 dilution

Lane 1 : Rat spleen tissue lysate

Lane 2 : Rat thymus tissue lysate

Lysates/proteins at 60 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/50000 dilution

Predicted band size: 15 kDa

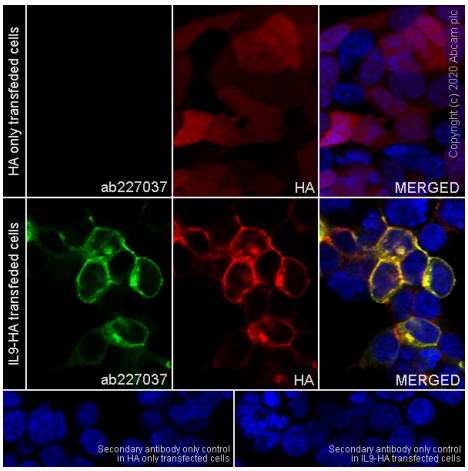
Observed band size: 30 kDa

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

This blot was developed using a higher sensitivity ECL substrate.

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 9806735).

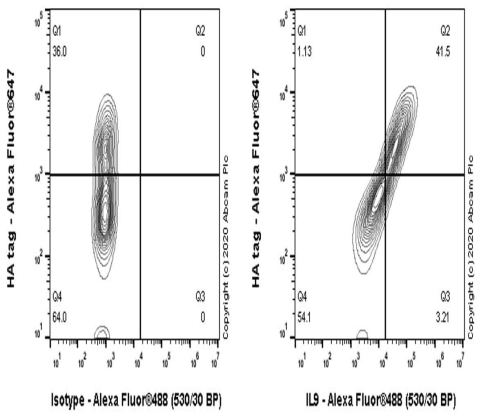
Exposure time: 104 seconds.



Immunocytochemistry/ Immunofluorescence - Anti-IL-9 antibody [EPR23484-151] (ab227037)

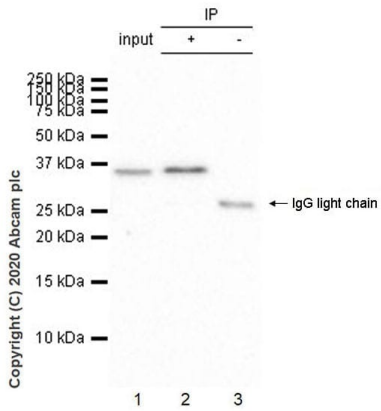
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized 293T (Human embryonic kidney epithelial cell) transfected with HA tagged mouse IL9 construct cells labelling IL-9 with ab227037 at 1/500 dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 2 µg/ml dilution (Green). Confocal image showing strong membranous and cytoplasmic staining in 293T cells transfected with HA tagged mouse IL9 construct. anti-HA.11 Epitope Tag mouse monoclonal antibody (Alexa Fluor® 647) was used to counterstain tubulin 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 2 µg/ml dilution.



Flow Cytometry (Intracellular) - Anti-IL-9 antibody [EPR23484-151] (ab227037)

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed, 90% methanol permeabilized 293T (Human embryonic kidney epithelial cell) transfected with HA tagged mouse IL9 construct cells labelling IL-9 with ab227037 at 1/500 dilution (0.1µg) (Right) compared with a Rabbit monoclonal IgG (**ab172730**) isotype control (Left). A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-IL-9 antibody [EPR23484-151] (ab227037)

IL-9 was immunoprecipitated from 0.35 mg mouse spleen tissue lysate 10µg with ab227037 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab227037 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(**ab131366**) was used at 1/5000 dilution.

Lane 1: Mouse spleen tissue lysate 10µg

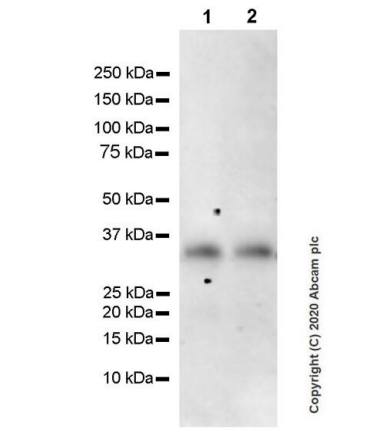
Lane 2: ab227037 IP in mouse spleen tissue lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab227037 in mouse spleen tissue lysate

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

Exposure time: 3 minutes.

This blot was developed using a higher sensitivity ECL substrate.



Western blot - Anti-IL-9 antibody [EPR23484-151] (ab227037)

All lanes : Anti-IL-9 antibody [EPR23484-151] (ab227037) at 1/1000 dilution

Lane 1 : Mouse spleen tissue lysate
Lane 2 : Mouse thymus tissue lysate

Lysates/proteins at 60 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/50000 dilution

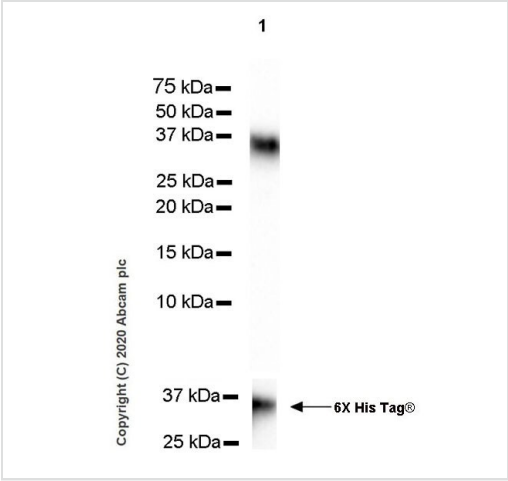
Predicted band size: 15 kDa
Observed band size: 30 kDa

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

This blot was developed using a higher sensitivity ECL substrate.

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 9806735).

Exposure time: 3 minutes.



Western blot - Anti-IL-9 antibody [EPR23484-151] (ab227037)

Anti-IL-9 antibody [EPR23484-151] (ab227037) at 1/1000 dilution + His-tagged mouse IL9 recombinant protein, 10 ng

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 15 kDa
Observed band size: 30 kDa

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

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 9806735).

Exposure time: 10 seconds.

Anti-IL-9 antibody [EPR23484-151] (ab227037)

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