abcam

ab233757

Anti-IL-9R antibody [4A11H2]

Mouse Monoclonal IL-9R antibody. Suitable for Flow Cyt, WB and reacts with Human, Rat samples. Cited in 2 publications. Immunogen corresponding to Recombinant Fragment Protein within Human IL9R aa 1-300.

Image updates are in progress. Products remain available and covered by the Abcam Product Promise. Learn more.

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	Preservative: 0.05% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Fragment Protein within Human IL9R aa 1-300. The exact immunogen used to generate this antibody is proprietary information. Database link Q01113
Clone number	4A11H2
Purification technique	Affinity purification Protein G
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1/200 - 1/400

Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

WB

Tested

Species	Rat
Dilution info	1/500 - 1/2000
Notes	-

Species	Human
Dilution info	1/500 - 1/2000
Notes	-

Target data

See full target information IL9R

Function	Plays an important role in the immune response against parasites by acting as a receptor of IL9.

Storage

Shipped at conditions	Blue Ice
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

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Interleukin 9 receptor (IL-9R) also known as CD129 is a transmembrane protein that belongs to the cytokine receptor family. It weighs approximately 54 kDa. IL-9R is expressed on various cell types including T cells B cells mast cells and certain epithelial cells. This receptor primarily binds to interleukin 9 (IL-9) and forms a heterodimer with the common gamma chain a component shared with other interleukin receptors.
Biological function summary	IL-9R plays essential roles in immune system signaling and regulation. As part of a receptor complex it activates downstream signaling pathways upon IL-9 binding influencing the immune responses such as cell survival proliferation and differentiation. IL-9R is also known to modulate allergic inflammation and has effects on both innate and adaptive immune responses.
Pathways	Research indicates that IL-9R is a participant in the JAK/STAT signaling pathway. This pathway includes janus kinase 1 (JAK1) and signal transducer and activator of transcription 5 (STAT5) both important for transmitting signals from IL-9 to exert cellular effects. IL-9R also connects to pathways involving other immune-modulating interleukins suggesting its broad role in immune regulation.
Associated diseases and disorders	IL-9R holds a significant relationship with asthma and allergic diseases. It plays a role in promoting inflammatory responses in the airways related to conditions like asthma. Moreover IL-9R has connections with IL-13 in the context of allergic inflammation and this interaction may amplify disease pathology. Understanding the dynamics of IL-9R could offer insights into therapeutic targets for managing such immune-related disorders.

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

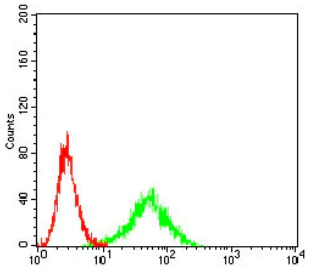
We do not recommend this combination. It is not covered by our product promise.

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.

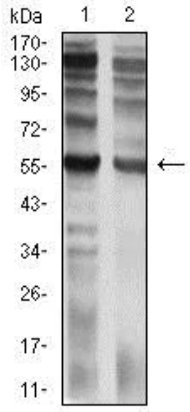
3 product images



Flow Cytometry - Anti-IL-9R antibody [4A11H2] (ab233757)

IL-9R Flow Cytometry staining using mouse Anti-IL-9R antibody

Flow cytometric analysis of Ramos (human Burkitt's lymphoma cell line) cell line labeling IL9R with ab233757 at 1/200 dilution (green) compared with a negative control (red).



Western blot - Anti-IL-9R antibody [4A11H2] (ab233757)

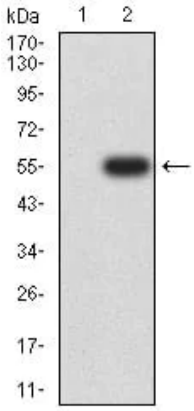
All lanes:
Western blot - Anti-IL-9R antibody [4A11H2] (ab233757) at 1/500 dilution

Lane 1:
C6 (rat glial tumor cell line) whole cell lysate

Lane 2:
PC-3 (human prostate adenocarcinoma cell line) whole cell lysate

Developed using the ECL technique.

Predicted band size: 57 kDa



Western blot - Anti-IL-9R antibody [4A11H2] (ab233757)

IL-9R Western blot staining using mouse Anti-IL-9R antibody

All lanes:
Western blot - Anti-IL-9R antibody [4A11H2] (ab233757) at 1/500 dilution

Lane 1:
EK-293 (human epithelial cell line from embryonic kidney) whole cell lysate

Lane 2:
IL9R (AA: extra 41-270)-hIgGFc transfected HEK-293 whole cell lysate

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