abcam

ab14823

Anti-NCR1/NKp46 antibody [n1D9]

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: PBS, 10% Glycerol (glycerin, glycerine)
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Full Length Protein corresponding to Human NCR1. Database link O76036
Clone number	n1D9
Purity	Tissue culture supernatant
Light chain type	kappa
Purification notes	Purified from TCS.

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target data

See full target information NCR1

Function	Cytotoxicity-activating receptor that may contribute to the increased efficiency of activated natural killer (NK) cells to mediate tumor cell lysis.

Storage

Shipped at conditions	Blue Ice
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

This product was changed from ascites to tissue culture supernatant on 24/01/2019. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.

Supplementary info

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

Activity summary	NCR1 also known as NKp46 is a receptor mainly expressed on the surface of natural killer (NK) cells. Its primary role involves recognizing and binding to ligands present on target cells including tumor cells and virus-infected cells. NCR1 initiates the activation of NK cells leading to the destruction of these abnormal cells. The NCR1 protein has a molecular weight of approximately 46 kDa and is a part of the immunoglobulin superfamily. NCR1 is mainly expressed in the immune system specifically on NK cells which are an important component of the innate immune response.
Biological function summary	The function of NCR1 involves the recognition of stressed transformed or infected cells marking them for elimination by NK cells. It does not typically function as a part of a complex; rather it serves a somewhat autonomous role in cell signaling. However its interaction with other receptors on NK cells including DAP12 enhances its signaling capabilities. Through the activation of cascades NCR1 promotes the release of cytotoxic granules and the production of cytokines therefore mediating the immune response.

Pathways	NCR1 plays a significant role in the regulation of immune surveillance pathways. It is involved in the recognition and elimination pathways that modulate the immune response against infected or cancerous cells. NK cells with NCR1's involvement interact with receptors like NKG2D adjusting the NK cell's cytotoxic activity. These interactions coordinate the broader immune response important for innate immunity effectively bridging innate and adaptive immunity by influencing other immune cells.
Associated diseases and disorders	NCR1 has been implicated in cancer and infectious diseases. In cancer altered expression or dysfunction of NCR1 may contribute to the evasion of immune surveillance by tumor cells potentially leading to tumor progression. Studies have shown reduced NKp46 expression in some cancerous states linking it to poor prognosis. In infectious diseases NCR1 plays a role in targeting virus-infected cells and its dysfunction can result in reduced effectiveness in clearing viral infections. Interactions with viral envelope proteins can interfere with NCR1 activity exemplifying its importance in antiviral defense mechanisms.

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

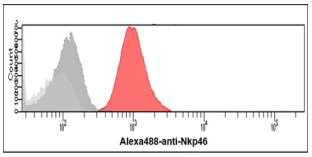
We do not recommend this combination. It is not covered by our product promise.

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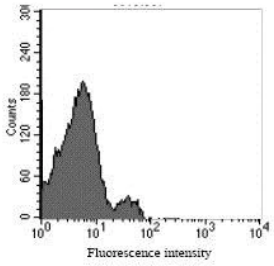
2 product images



Flow Cytometry - Anti-NCR1/NKp46 antibody [n1D9] (ab14823)

NCR1/NKp46 Flow Cytometry staining using mouse Anti-NCR1/NKp46 antibody

Flow cytometry analysis of NKp46 in PBMC cells. The cell was stained with ab14823 at 2-5µg for $1x10^6$ cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (blue), cells without incubation with primary and secondary antibody was used as the negative control (black).



Flow Cytometry - Anti-NCR1/NKp46 antibody [n1D9] (ab14823)

NCR1/NKp46 Flow Cytometry staining using mouse Anti-NCR1/NKp46 antibody

ab14823 staining human PBMC by flow cytometry.
This image was produced using the ascites version of this antibody.

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