abcam

ab264072

Anti-NKp30 antibody [EPR23058-137] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR23058-137
Purification technique	Affinity purification Protein A
Concentration	1.055 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Not recommended

Species	Human
Dilution info	-

Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	-

WB

Not recommended

Species	Human
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Human
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Human
Dilution info	-
Notes	-

Target data

See full target information NCR3

Function	Cell membrane receptor of natural killer/NK cells that is activated by binding of extracellular ligands including BAG6 and NCR3LG1. Stimulates NK cells cytotoxicity toward neighboring cells producing these ligands. It controls, for instance, NK cells cytotoxicity against tumor cells. Engagement of NCR3 by BAG6 also promotes myeloid dendritic cells (DC) maturation, both through killing DCs that did not acquire a mature phenotype, and inducing the release by NK cells of TNFA and IFNG which promote DC maturation.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab264072 is the carrier-free version of ab243649.

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.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility

This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Supplementary info

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

Activity summary	NKp30 also known as NCR3 (Natural Cytotoxicity Receptor 3) is a type I transmembrane protein that functions as an activating receptor on natural killer (NK) cells. It is part of the natural cytotoxicity receptor family and is encoded by the NCR3 gene. NKp30 is characterized by its structure which includes a single immunoglobulin-like domain. This protein weighs approximately 30 kDa. NKp30 is expressed mainly on resting and activated NK cells as well as IL-15-stimulated NK cells found in humans.
Biological function summary	NKp30 plays a significant role in immune response by recognizing and binding to ligands on tumor cells and virus-infected cells facilitating their elimination. It forms part of a larger immunological complex that includes DNAM-1 and 2B4 other activating receptors that work in concert to enhance the natural killing ability of NK cells. NKp30 triggers the release of cytotoxic granules and cytokines like IFN-γ leading to an enhanced cytotoxic response against target cells.
Pathways	NKp30 participates heavily in immune regulation especially in NK cell-mediated cytotoxicity. This protein is involved in pathways such as the NK cell-mediated antibody-dependent cellular cytotoxicity (ADCC) and has strong interaction with signaling proteins like CD3ζ and DAP12 which transduce activating signals. Through these pathways NKp30 influences the immune surveillance capability of NK cells modulating immune responses and maintaining cellular homeostasis.
Associated diseases and disorders	NKp30 has been implicated in cancer progression and immune evasion notably in melanoma and gastrointestinal stromal tumors (GIST). Altered expression of NKp30 can result in reduced immune recognition and elimination of these tumor cells. The protein's interaction with B7-H6 a ligand often overexpressed on cancer cells illustrates its importance in tumor immunity. NKp30's function or dysfunction makes it a relevant target for therapeutic interventions aimed at restoring immune competence against cancerous cells.

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

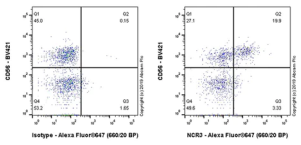
We do not recommend this combination. It is not covered by our product promise.

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.

1 product image



Flow Cytometry - Anti-NKp30 antibody [EPR23058-137] - BSA and Azide free (ab264072)

NKp30 Flow Cytometry staining using rabbit Anti-NKp30 antibody

Flow cytometric analysis of Human peripheral blood mononuclear cell (PBMC) cells labelling NCR3 with ab243649 at 1/700 dilution compared with a Rabbit monoclonal IgG (ab172730) isotype control (left) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat anti rabbit IgG (Alexa Fluor® 647, ab150079) at 1/2000 dilution was used as the secondary antibody.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab243649).

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