abcam

ab290739

Anti-B7-H6 antibody [EPR26324-130] - 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	EPR26324-130
Purification technique	Affinity purification Protein A

Reactivity data

ICC/IF

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

IP

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

WB

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

Target data

See full target information NCR3LG1

Function	Triggers NCR3-dependent natural killer cell activation.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

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.

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	B7-H6 also called NCR3LG1 is a cell surface protein functioning as a ligand for the NKp30 receptor. The protein weighs approximately 55 kDa and is mainly expressed on tumor cells and certain activated immune cells. Scientists often use tools like B7-H6 flow assays to study its expression patterns in various cell types. In the immune landscape B7-H6 interacts with NKp30 to stimulate natural killer (NK) cell activation and mediate immune responses.
Biological function summary	B7-H6 acts as an important component in natural killer cell-mediated cytotoxicity. The protein is not part of a larger complex but operates independently to engage NK cell activity. It serves as a signal for NK cells to identify and destroy tumor cells. Additionally B7-H6 expression on tumor cells often correlates with immune cell recognition thereby playing an important role in tumor immunity.
Pathways	B7-H6 participates in the immune response pathways connected to natural killer cell activation. Specifically it interacts with proteins like NKp30 as part of the natural cytotoxicity triggering receptor signaling process. These interactions facilitate the destruction of target cells enhancing the body's innate immune response by activating downstream pathways vital to immune defense.
Associated diseases and disorders	B7-H6 has associations with cancer and infectious diseases. In several cancer types including mesothelioma the protein's elevated expression can serve as an indicator of tumorigenesis. B7-H6 alongside its partner NKp30 potentially plays a role in immune escape mechanisms employed by tumors. Understanding this interaction offers insights into novel therapeutic strategies for tackling such conditions.

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

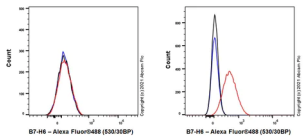
We do not recommend this combination. It is not covered by our product promise.

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.

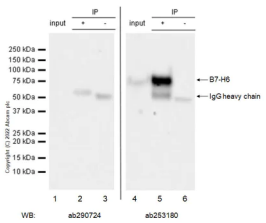
2 product images



Flow Cytometry - Anti-B7-H6 antibody [EPR26324-130] - BSA and Azide free (ab290739)

B7-H6 Flow Cytometry staining using rabbit Anti-B7-H6 antibody

This data was developed using ab290724, the same antibody clone in a different buffer formulation.
Flow cytometric analysis of MCF7 (Human breast adenocarcinoma epithelial cell, Left) / K-562 (Human chronic myelogenous leukemia lymphoblast, Right) cells labelling B7-H6 with ab290724 at 1/50 dilution (1ug) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/2000 dilution was used as the secondary antibody. Low expression: MCF7 (PMID: 22851709). Gated on viable cells.



Immunoprecipitation - Anti-B7-H6 antibody [EPR26324-130] - BSA and Azide free (ab290739)

This data was developed using ab290724, the same antibody clone in a different buffer formulation.
B7-H6 was immunoprecipitated from 0.35 mg K-562 (human chronic myelogenous leukemia lymphoblast) whole cell lysate 10 ug with ab290724 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab290724 at dilution. VeriBlot for IP secondary antibody(HRP)(ab131366) was used at 1/5000 dilution.

Lane 1: K-562 (human chronic myelogenous leukemia lymphoblast) whole cell lysate 10 ug

Lane 2: ab290724 IP in K-562 whole cell lysate

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab290724 in K-562 whole cell lysate

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

Exposure time: 24 seconds

K562 whole cell lysate incubates with ab290724 was used to pulldown B7-H6. For WB, left image: detection primary antibody is ab290724; right image: detection primary antibody is ab253180.

All lanes:
Immunoprecipitation - Anti-B7-H6 antibody [EPR26324-130] (ab290724)

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