abcam

ab282280

Anti-KIR3DL1 + KIR2DS4 + KIR2DS2 + KIR3DS1 antibody [EPR24357-139] - 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	EPR24357-139
Purification technique	Affinity purification Protein A
Concentration	0.999 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Not recommended

Species	Human
Dilution info	-

Notes	-

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

IP

Tested

Species	Human
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Target data

See full target information KIR3DL1

Function	Receptor on natural killer (NK) cells for HLA Bw4 allele. Inhibits the activity of NK cells thus preventing cell lysis.

Storage

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

Notes

ab282280 is the carrier-free version of ab259808.

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.

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.

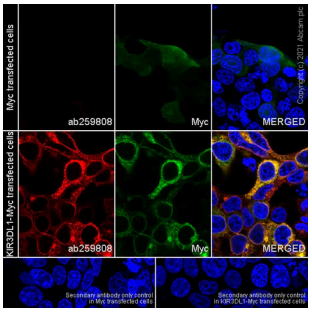
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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6 product images



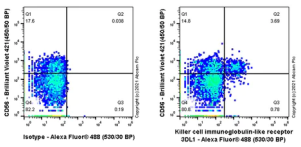
Immunocytochemistry/ Immunofluorescence - Anti-KIR3DL1 + KIR2DS4 + KIR2DS2 + KIR3DS1 antibody [EPR24357-139] - BSA and Azide free (ab282280)

KIR3DL1 + KIR2DS4 + KIR2DS2 + KIR3DS1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-KIR3DL1 + KIR2DS4 + KIR2DS2 + KIR3DS1 antibody

This data was developed using ab259808, the same antibody clone in a different buffer formulation.
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized 293T (human embryonic kidney) cells labelling KIR3DL1+KIR3DS1+KIR2DS2+KIR2DS4 with ab259808 at 1/50 dilution (10.2 ug/ml), followed by ab150080 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) antibody at 1/500 dilution (Green). Confocal image showing cytoplasmic staining in 293T cells transfected with myc-tagged KIR3DL1 expression vector is observed.

Myc-Tag Mouse mAb (Alexa Fluor® 488) was used to counterstain myc-tag at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is ab150080 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) at 1/500 dilution.

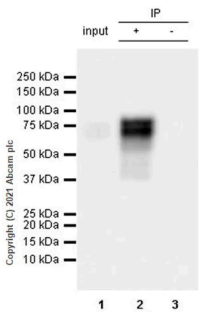


Flow Cytometry - Anti-KIR3DL1 + KIR2DS4 + KIR2DS2 + KIR3DS1 antibody [EPR24357-139] - BSA and Azide free (ab282280)

KIR3DL1 + KIR2DS4 + KIR2DS2 + KIR3DS1 Flow Cytometry staining using rabbit Anti-KIR3DL1 + KIR2DS4 + KIR2DS2 + KIR3DS1 antibody

This data was developed using ab259808, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of Human peripheral blood mononuclear cell (PBMC) cells labelling KIR3DL1+KIR3DS1+KIR2DS2+KIR2DS4 with ab259808 at 1/500 dilution (0.1ug)/ Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control. Goat anti rabbit IgG (Alexa Fluor® 647, ab150079) at 1/2000 dilution was used as the secondary antibody. Cells were stained with rabbit IgG or ab259808. Then stained with anti-CD56 conjugated to BV421. Gated on viable cells.



Immunoprecipitation - Anti-KIR3DL1 + KIR2DS4 + KIR2DS2 + KIR3DS1 antibody [EPR24357-139] - BSA and Azide free (ab282280)

This data was developed using ab259808, the same antibody clone in a different buffer formulation.
KIR3DL1+KIR3DS1+KIR2DS2+KIR2DS4 was immunoprecipitated from 0.35 mg 293T transfected with human KIR3DL1 expression vector containing a myc-His-tag®, whole cell lysate with ab259808 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab259808 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(ab131366) was used at 1/5000 dilution.

Lane 1: 293T (human embryonic kidney) transfected with human KIR3DL1 expression vector containing a myc-His-tag®, whole cell lysate 10 ug

Lane 2: ab259808 IP in 293T transfected with human KIR3DL1 expression vector containing a myc-His-tag®, whole cell lysate

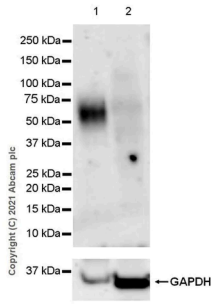
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab259808 in 293T transfected with human KIR3DL1 expression vector containing a myc-His-tag®, whole cell lysate

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

Exposure time: 10 seconds

All lanes:
Immunoprecipitation - Anti-KIR3DL1 + KIR2DS4 + KIR2DS2 + KIR3DS1 antibody [EPR24357-139] (ab259808)

Observed band size: 60-80 kDa



Western blot - Anti-KIR3DL1 + KIR2DS4 + KIR2DS2 + KIR3DS1 antibody [EPR24357-139] - BSA and Azide free (ab282280)

KIR3DL1 + KIR2DS4 + KIR2DS2 + KIR3DS1 Western blot staining using rabbit Anti-KIR3DL1 + KIR2DS4 + KIR2DS2 + KIR3DS1 antibody

This data was developed using ab259808, the same antibody clone in a different buffer formulation.
Blocking and diluting buffer and concentration: 5% NFDM/TBST

The expression pattern & observed MW are consistent with what has been described in the literature (PMID:17911614).

Negative control: human tonsil (PMID:14734722)

Exposure time: 3 minutes

All lanes:
Western blot - Anti-KIR3DL1 + KIR2DS4 + KIR2DS2 + KIR3DS1 antibody [EPR24357-139] (ab259808) at 1/1000 dilution

Lane 1:

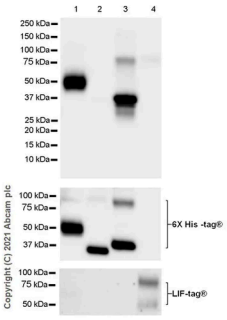
Human spleen tissue lysate at 60 µg

Lane 2:
Human tonsil tissue lysate at 60 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Observed band size: 60-80 kDa



Western blot - Anti-KIR3DL1 + KIR2DS4 + KIR2DS2 + KIR3DS1 antibody [EPR24357-139] - BSA and Azide free (ab282280)

KIR3DL1 + KIR2DS4 + KIR2DS2 + KIR3DS1 Western blot staining using rabbit Anti-KIR3DL1 + KIR2DS4 + KIR2DS2 + KIR3DS1 antibody

This data was developed using ab259808, the same antibody clone in a different buffer formulation.
Blocking and diluting buffer and concentration: 5% NFDM/TBST

This antibody has high cross-reactivity with human KIR2DS4, and low with human KIR2DS2. This antibody does not recognize human KIR3DL3.

All of the rec proteins were made in-house. KIR3DL1 and KIR2DS2 were expressed from HEK-293 expression systems. KIR3DL3 and KIR2DS4 were expressed from E.coli expression systems.

Exposure time: 15 seconds

All lanes:
Western blot - Anti-KIR3DL1 + KIR2DS4 + KIR2DS2 + KIR3DS1 antibody [EPR24357-139] (ab259808) at 1/1000 dilution

Lane 1:
His-tagged human KIR3DL1 recombinant protein at 0.01 µg

Lane 2:
His-tagged human KIR3DL3 recombinant protein at 0.01 µg

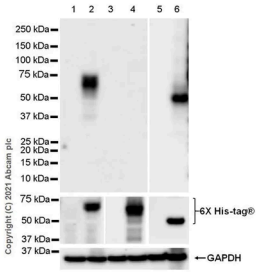
Lane 3:
His-tagged human KIR2DS4 recombinant protein at 0.01 µg

Lane 4:
LIF/His-tagged human KIR2DS2 recombinant protein at 0.01 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Observed band size: 33-87 kDa



Western blot - Anti-KIR3DL1 + KIR2DS4 + KIR2DS2 + KIR3DS1 antibody [EPR24357-139] - BSA and Azide free (ab282280)

KIR3DL1 + KIR2DS4 + KIR2DS2 + KIR3DS1 Western blot staining using rabbit Anti-KIR3DL1 + KIR2DS4 + KIR2DS2 + KIR3DS1 antibody

This data was developed using ab259808, the same antibody clone in a different buffer formulation.
Blocking and diluting buffer and concentration: 5% NFDM/TBST

This antibody can recognize human KIR3DS1 but can not recognize human KIR3DL2.

Exposure time: Lane 1-4: 3 minutes Lane 5-6: 59 seconds

All lanes:
Western blot - Anti-KIR3DL1 + KIR2DS4 + KIR2DS2 + KIR3DS1 antibody [EPR24357-139] (ab259808) at 1/1000 dilution

Lanes 1, 3 and 5:
293T (human embryonic kidney) transfected with an empty vector (vector control), containing a myc-His-tag®, whole cell lysate at 20 µg

Lane 2:
293T transfected with human KIR3DL1 expression vector containing a myc-His-tag®, whole cell lysate at 20 µg

Lane 4:
293T transfected with human KIR3DL2 expression vector containing a myc-His-tag®, whole cell lysate 20 at 20 µg

Lane 6:
293T transfected with human KIR3DS1 expression vector containing a myc-His-tag®, whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Observed band size: 45-70 kDa

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