

Product datasheet

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

Recombinant RabMAb

7 Images

Overview

Product name	Anti-KIR3DL1 + KIR2DS4 + KIR2DS2 + KIR3DS1 antibody [EPR24357-139] - BSA and Azide free
Description	Rabbit monoclonal [EPR24357-139] to KIR3DL1 + KIR2DS4 + KIR2DS2 + KIR3DS1 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, IP, Flow Cyt, ICC/IF Unsuitable for: IHC-P
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human spleen, His-tagged human KIR3DL1 recombinant protein, His-tagged human KIR2DS4 recombinant protein, 293T transfected with human KIR3DL1 expression vector containing a myc-His-tag®, 293T transfected with human KIR3DS1 expression vector containing a myc-His-tag® whole lysates. ICC/IF: 293T cells transfected with myc-tagged KIR3DL1 expression vector. Flow Cyt: Human peripheral blood mononuclear cells. IP: 293T transfected with human KIR3DL1 expression vector containing a myc-His-tag®.
General notes	<p>ab282280 is the carrier-free version of ab259808.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility

- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.2 Constituent: 100% PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR24357-139
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab282280 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

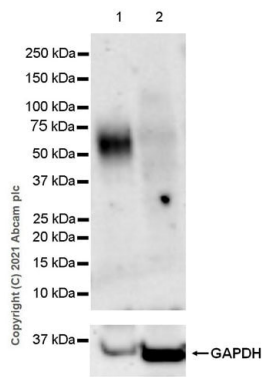
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 49 kDa.
IP		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.

Application notes Is unsuitable for IHC-P.

Target

Cellular localization KIR3DL1: Cell membrane. KIR2DS4: Cell membrane. KIR3DS1: Cell membrane.

Images



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

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

Lane 1 : Human spleen tissue lysate

Lane 2 : Human tonsil tissue lysate

Lysates/proteins at 60 µg per lane.

Secondary

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

Predicted band size: 49 kDa

Observed band size: 60-80 kDa

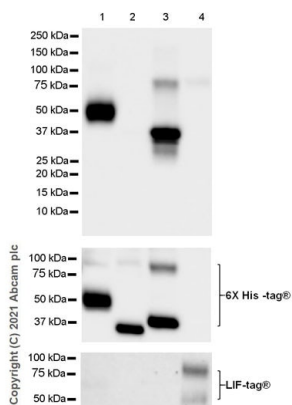
This data was developed using **ab259808**, the same antibody clone in a different buffer formulation.

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



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

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

Lane 1 : His-tagged human KIR3DL1 recombinant protein

Lane 2 : His-tagged human KIR3DL3 recombinant protein

Lane 3 : His-tagged human KIR2DS4 recombinant protein

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

Lysates/proteins at 0.01 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 49 kDa

Observed band size: 33-87 kDa

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

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

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

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

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

Lysates/proteins at 20 µg per lane.

Secondary

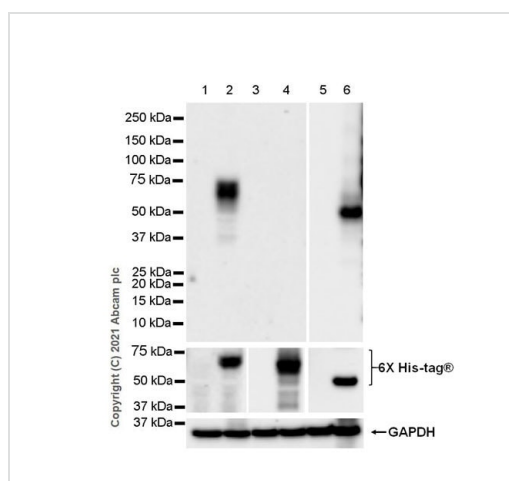
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 49 kDa

Observed band size: 45-70 kDa

This data was developed using [ab259808](#), the same antibody clone in a different buffer formulation.

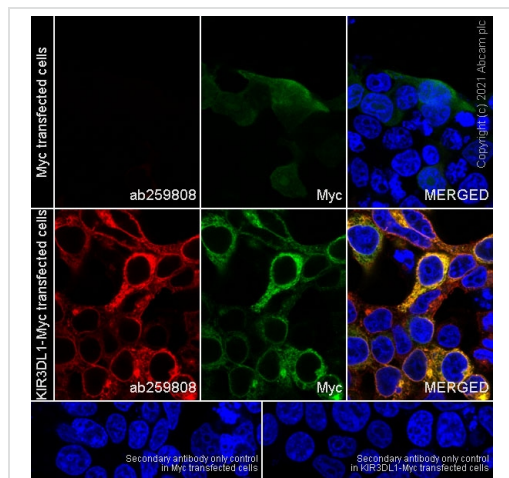
Blocking and diluting buffer and concentration: 5% NFDm/TBST



Western blot - Anti-KIR3DL1 antibody [EPR24357-139] - BSA and Azide free ([ab282280](#))

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

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



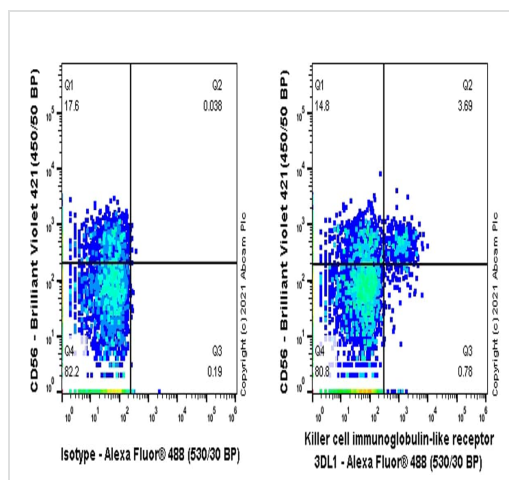
Immunocytochemistry/ Immunofluorescence - Anti-KIR3DL1 + KIR2DS4 + KIR2DS2 + KIR3DS1 antibody [EPR24357-139] - BSA and Azide free (ab282280)

This data was developed using [ab259808](#), the same antibody clone in a different buffer formulation.

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).

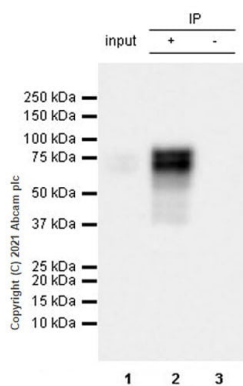
Secondary antibody only control: Secondary antibody is [ab150080](#) Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) at 1/500 dilution.



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

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 (0.1 ug)/ 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 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

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-KIR3DL1 antibody [EPR24357-139] - BSA and Azide free (ab282280)

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