abcam

ab281936

Anti-IL-1R-2 antibody [EPR24695-36] - 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	EPR24695-36
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

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

Target data

See full target information IL1R2

Function Non-signaling receptor for IL1A, IL1B and IL1RN. Reduces IL1B activities. Serves as a decoy receptor by competitive binding to IL1B and preventing its binding to IL1R1. Also modulates cellular response through non-signaling association with IL1RAP after binding to IL1B. IL1R2 (membrane and secreted forms) preferentially binds IL1B and poorly IL1A and IL1RN. The secreted IL1R2 recruits secreted IL1RAP with high affinity; this complex formation may be the dominant mechanism for neutralization of IL1B by secreted/soluble receptors.

Storage

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

Notes

ab281936 is the carrier-free version of ab273025.

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

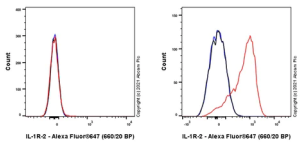
We do not recommend this combination. It is not covered by our product promise.

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.

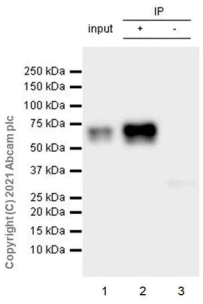
5 product images



Flow Cytometry - Anti-IL-1R-2 antibody [EPR24695-36] - BSA and Azide free (ab281936)

IL-1R-2 Flow Cytometry staining using rabbit Anti-IL-1R-2 antibody

This data was developed using ab273025, the same antibody clone in a different buffer formulation.
Flow cytometric analysis of Jurkat (Human T cell leukemia T lymphocyte, Left)/ HDLM-2(Human Hodgkin lymphoma, Right) cells labelling IL-1R-2 with ab273025 at 1/50 dilution (1ug) 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® 647, ab150079) at 1/2000 dilution was used as the secondary antibody. **Negative control**: Jurkat. Gated on viable cells.



Immunoprecipitation - Anti-IL-1R-2 antibody [EPR24695-36] - BSA and Azide free (ab281936)

This data was developed using ab273025, the same antibody clone in a different buffer formulation.
IL-1R-2 was immunoprecipitated from 0.35 mg SR (human pleural effusion lymphoblast) whole cell lysate 10 ug with ab273025 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab273025 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(ab131366) was used at 1/5000 dilution.

Lane 1: SR (human pleural effusion lymphoblast) whole cell lysate 10 ug

Lane 2: ab273025 IP in SR whole cell lysate

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab273025 in SR whole cell lysate

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

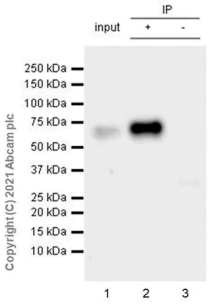
Exposure time: 32 seconds

Sample loaded onto lane 1 is non-boiled as boiling may cause protein aggregates.

All lanes:
Immunoprecipitation - Anti-IL-1R-2 antibody [EPR24695-36] (ab273025)

Predicted band size: 45 kDa

Observed band size: 50-70 kDa



Immunoprecipitation - Anti-IL-1R-2 antibody [EPR24695-36] - BSA and Azide free (ab281936)

This data was developed using ab273025, the same antibody clone in a different buffer formulation.
IL-1R-2 was immunoprecipitated from 0.35 mg HDLM-2 (human Hodgkin lymphoma) whole cell lysate 10 ug with ab273025 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab273025 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(ab131366) was used at 1/5000 dilution.

Lane 1: HDLM-2 (human Hodgkin lymphoma) whole cell lysate 10 ug

Lane 2: ab273025 IP in HDLM-2 whole cell lysate

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab273025 in HDLM-2 whole cell lysate

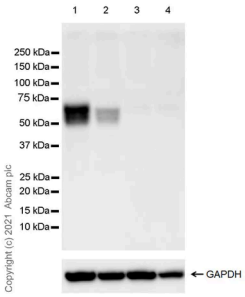
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 32 seconds

Sample loaded onto lane 1 is non-boiled as boiling may cause protein aggregates.
All lanes:
Immunoprecipitation - Anti-IL-1R-2 antibody [EPR24695-36] (ab273025)

Predicted band size: 45 kDa

Observed band size: 50-70 kDa



Western blot - Anti-IL-1R-2 antibody [EPR24695-36] - BSA and Azide free (ab281936)

IL-1R-2 Western blot staining using rabbit Anti-IL-1R-2 antibody

This data was developed using ab273025, the same antibody clone in a different buffer formulation.
Blocking and diluting buffer and concentration: 5% NFDM/TBST

The molecular weight observed is consistent with what has been described in the literature (PMID: 26406983).

Negative control: Jurkat and THP-1 (PMID:8702856).

Samples are non-boiled as boiling may cause protein aggregates.

Exposure time: 92 seconds

All lanes:
Western blot - Anti-IL-1R-2 antibody [EPR24695-36] (ab273025) at 1/1000 dilution

Lane 1:
SR (human pleural effusion lymphoblast) whole cell lysate at 20 µg

Lane 2:
HDLM-2 (human hodgkin lymphoma) whole cell lysate at 20 µg

Lane 3:
Jurkat (human T cell leukemia T lymphocyte) whole cell lysate at 20 µg

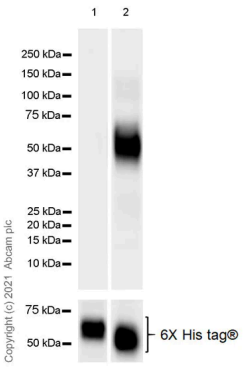
Lane 4:
THP-1 (human monocytic leukemia monocyte) whole cell lysate at 20 µg

Secondary

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

Predicted band size: 45 kDa

Observed band size: 55-70 kDa



Western blot - Anti-IL-1R-2 antibody [EPR24695-36] - BSA and Azide free (ab281936)

This data was developed using ab273025, the same antibody clone in a different buffer formulation.
Blocking and diluting buffer and concentration: 5% NFDM/TBST

This antibody specifically recognizes IL1R2 recombinant protein, but not IL1R1 recombinant protein.

Exposure time: 1 second

All lanes:
Western blot - Anti-IL-1R-2 antibody [EPR24695-36] (ab273025) at 1/1000 dilution

Lane 1:
His-tagged human IL1R1 recombinant protein (aa 18-332) at 0.02 µg

Lane 2:
His-tagged human IL1R2 recombinant protein (aa 14-343) at 0.02 µg

Secondary

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

Predicted band size: 45 kDa

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