abcam

ab325442

Anti-IL1 Receptor I/IL-1R-1 antibody [EPR27284-5] - 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	EPR27284-5
Purification technique	Affinity purification Protein A
Concentration	1.003 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Transfected cell line - Human, Human
Dilution info	-

Notes	-

Not recommended

Species	Mouse
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Human, Mouse, Transfected cell line - Human
Dilution info	-
Notes	-

Target data

See full target information IL1R1

Function	Receptor for IL1A, IL1B and IL1RN (PubMed:2950091, PubMed:37315560). After binding to interleukin-1 associates with the coreceptor IL1RAP to form the high affinity interleukin-1 receptor complex which mediates interleukin-1-dependent activation of NF-kappa-B, MAPK and other pathways. Signaling involves the recruitment of adapter molecules such as TOLLIP, MYD88, and IRAK1 or IRAK2 via the respective TIR domains of the receptor/coreceptor subunits. Binds ligands with comparable affinity and binding of antagonist IL1RN prevents association with IL1RAP to form a signaling complex. Involved in IL1B-mediated costimulation of IFNG production from T-helper 1 (Th1) cells (PubMed:10653850).

Storage

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

Notes

ab325442 is the carrier-free version of ab325438.

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

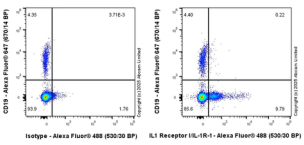
We do not recommend this combination. It is not covered by our product promise.

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.

3 product images



Flow Cytometry - Anti-IL1 Receptor I/IL-1R-1 antibody [EPR27284-5] - BSA and Azide free (ab325442)

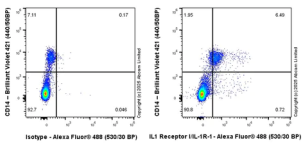
IL1 Receptor I/IL-1R-1 Flow Cytometry staining of Human PBMC (human peripheral blood mononuclear cell) using rabbit Anti-IL1 Receptor I/IL-1R-1 antibody

This data was developed using ab325438, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of Human PBMC (human peripheral blood mononuclear cell) cells labelling IL1 Receptor I/IL-1R-1 with ab325438 at 1/50 dilution (1ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control.

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Cells were co-stained with CD19 conjugated to Alexa Fluor®647. Gated on viable cells.



Flow Cytometry - Anti-IL1 Receptor I/IL-1R-1 antibody [EPR27284-5] - BSA and Azide free (ab325442)

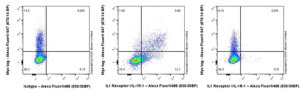
IL1 Receptor I/IL-1R-1 Flow Cytometry staining of Human PBMC (human peripheral blood mononuclear cell) using rabbit Anti-IL1 Receptor I/IL-1R-1 antibody

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Flow cytometric analysis of Human PBMC (human peripheral blood mononuclear cell) cells labelling IL1 Receptor I/IL-1R-1 with ab325438 at 1/50 dilution (1ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control.

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Cells were co-stained with CD14 conjugated to Brilliant Violet 421. Gated on viable cells.



Flow Cytometry - Anti-IL1 Receptor I/IL-1R-1 antibody [EPR27284-5] - BSA and Azide free (ab325442)

IL1 Receptor I/IL-1R-1 Flow Cytometry staining using rabbit Anti-IL1 Receptor I/IL-1R-1 antibody

This data was developed using ab325438, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of 4% paraformaldehyde fixed 0.1% Tween-20 permeabilized 293T cells transfected with a human IL1R1 expression vector containing a myc-His-tag® (Middle) and 293T cells transfected with an empty expression vector containing a myc-His-tag® (Right) cells labelling

IL1 Receptor I/IL-1R-1 with ab325438 at 1/50 dilution (1ug) / Middle and Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control.

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Cells were surface stained with isotype control or our antibody. Then fixed with 4% PFA for 10min followed by intracellularly stained with anti-myc tag conjugated to Alexa Fluor® 647.

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