abcam

ab327714

Anti-CLEC-2 antibody [EPR31122-506] - 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	EPR31122-506
Purification technique	Affinity purification Protein A
Concentration	0.97 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Not recommended

Species	Human, Transfected cell line - Human
Dilution info	-

Notes	-

Flow Cyt

Tested

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

ICC/IF

Not recommended

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

IHC-P

Not recommended

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

Target data

See full target information CLEC1B

Function C-type lectin-like receptor that serves as a platelet receptor for the lymphatic endothelial marker PDPN (PubMed:18215137). Plays an essential role in blood/lymphatic vessel separation and thrombus formation through homophilic association (PubMed:22556408). Acts as a negative regulator of lymphatic endothelial cell behavior by inhibiting proliferation, migration, and tube formation (PubMed:22556408). Upon ligand binding, triggers a signaling cascade via sequential activation of SRC and SYK tyrosine kinases, leading to activation of PLCG2 (PubMed:18955485). Through this pathway, mediates platelet adhesion, aggregation, and secretion in response to PDPN-expressing cells. During embryonic development, plays a central role in cerebrovascular formation and blood/lymphatic vessel separation. Interacts with PDPN on neuroepithelial cells to

promote platelet activation, thereby ensuring maturation and integrity of cerebrovascular structures and preventing hemorrhage. (Microbial infection) Acts as a receptor for the platelet-aggregating snake venom protein rhodocytin. Rhodocytin binding leads to tyrosine phosphorylation and this promotes the binding of spleen tyrosine kinase (SYK) and initiation of downstream tyrosine phosphorylation events and activation of PLCG2 (PubMed:16174766, PubMed:18955485). (Microbial infection) Acts as an attachment factor for Human immunodeficiency virus type 1 (HIV-1) and facilitates its capture by platelets (PubMed:16940507).

Storage

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

Notes

ab327714 is the carrier-free version of ab327705

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.

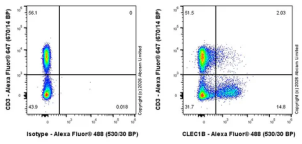
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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-CLEC-2 antibody [EPR31122-506] - BSA and Azide free (ab327714)

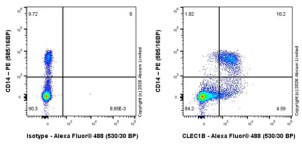
CLEC-2 Flow Cytometry staining of Human PBMC (human peripheral blood mononuclear cell) using rabbit Anti-CLEC-2 antibody

This data was developed using ab327705, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of Human PBMC (human peripheral blood mononuclear cell) cells labelling CLEC1B with ab327705 at 1/500 dilution (0.1ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

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

Gated on viable cells.
Cells were co-stained with CD3 conjugated to Alexa Fluor®647.



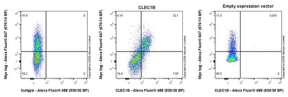
Flow Cytometry - Anti-CLEC-2 antibody [EPR31122-506] - BSA and Azide free (ab327714)

CLEC-2 Flow Cytometry staining of Human PBMC (human peripheral blood mononuclear cell) using rabbit Anti-CLEC-2 antibody

Flow cytometric analysis of Human PBMC (human peripheral blood mononuclear cell) cells labelling CLEC1B with ab327705 at 1/500 dilution (0.1ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

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

Gated on viable cells.
Cells were co-stained with CD14 conjugated to PE.
PMID:10671229



Flow Cytometry - Anti-CLEC-2 antibody [EPR31122-506] - BSA and Azide free (ab327714)

CLEC-2 Flow Cytometry staining using rabbit Anti-CLEC-2 antibody

This data was developed using ab327705, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of 4% paraformaldehyde fixed 0.1% Tween-20 permeabilized 293T cells (human embryonic kidney epithelial cell) transfected with a human CLEC1B expression vector containing a Myc-His-tag® (Middle) 293T cells transfected with an empty expression vector containing a myc-His-tag® (Right) cells labelling with ab327705 at 1/50000 dilution (0.001ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

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'.