abcam

ab288665

Anti-CLEC-2 antibody [AYP1]

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	pH: 7.4 Preservative: 0.098% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Fragment Protein within Human CLEC1B aa 50 to C-terminus. The exact immunogen used to generate this antibody is proprietary information. Database link Q9P126
Clone number	AYP1
Purification technique	Affinity purification Protein A
Specificity	The mouse monoclonal antibody AYP1 recognizes an epitope within the extracellular part of CLEC2, a transmembrane glycoprotein expressed on activated plateles and on platelet microparticles.
Light chain type	kappa
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human

Dilution info	1-4 g/mL
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 duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

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

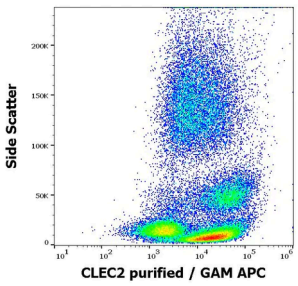
We do not recommend this combination. It is not covered by our product promise.

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.

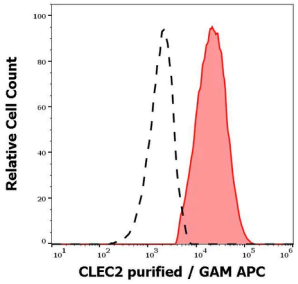
2 product images



Flow Cytometry - Anti-CLEC-2 antibody [AYP1] (ab288665)

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

Flow cytometry surface staining pattern of human peripheral whole blood stained using ab288665 (concentration in sample 1.7 µg/ml, GAM APC).



Flow Cytometry - Anti-CLEC-2 antibody [AYP1] (ab288665)

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

Separation of human CLEC2 positive thrombocytes (red-filled) from human lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of peripheral whole blood stained using ab288665 (concentration in sample 1.7 µg/ml, GAM APC).

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