abcam

ab325192

Anti-CD48 antibody [EPR29721-7]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR29721-7
Purification technique	Affinity purification Protein A

Reactivity data

Flow Cyt

Tested

Species	Mouse
Dilution info	0.2 µg/mL
Notes	-

Target data

See full target information Cd48

Function	Glycosylphosphatidylinositol (GPI)-anchored cell surface glycoprotein that interacts via its N-terminal immunoglobulin domain with cell surface receptors including 2B4/CD244 or CD2 to regulate immune cell function and activation (PubMed:21278219, PubMed:9881969). Participates in T-cell signaling transduction by associating with CD2 and efficiently bringing the Src family protein kinase LCK and LAT to the TCR/CD3 complex. In turn, promotes LCK phosphorylation and subsequent activation (PubMed:9881969). Induces the phosphorylation of the cytoplasmic immunoreceptortyrosine switch motifs (ITSMs) of CD244 initiating a series of signaling events that leads to the generation of the immunological synapse and the directed release of cytolytic granules containing perforin and granzymes by T-lymphocytes and NK-cells (By similarity) (PubMed:21278219, PubMed:9881969).

Storage

Shipped at conditions	Conditional Ambient
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

Notes

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.

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

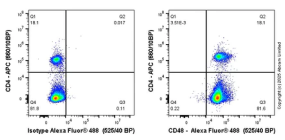
We do not recommend this combination. It is not covered by our product promise.

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



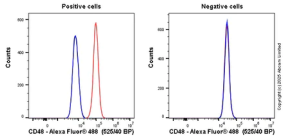
Flow Cytometry - Anti-CD48 antibody [EPR29721-7] (ab325192)

CD48 Flow Cytometry staining of C57 BL/6 mouse splenocytes using rabbit Anti-CD48 antibody

Flow cytometry staining of C57 BL/6 mouse splenocytes was performed using ab325192 (right) or Recombinant Rabbit IgG, monoclonal [EPR25A] - Isotype Control (left). Cells were incubated for 30 minutes on ice in 1× PBS containing 10 µg/ml anti-CD16/CD32 and 10% normal goat serum to block Fc receptors and non-specific protein-protein interactions. They were then treated with either ab325192 or the isotype control antibody (1×10^6 cells in 100 µl at 0.2 µg/ml, dilution 1:2500) for 30 minutes on ice. CD4 staining was performed simultaneously.

The secondary antibody, Goat Anti-Rabbit IgG H&L (Alexa Fluor 488, ab150077), preadsorbed, was used at a 1:4000 dilution and incubated for 30 minutes on ice.

More than 30, 000 events were acquired using a 50 mW blue laser (488 nm) and a 525/40 bandpass filter. Events were gated on lymphocytes.



Flow Cytometry - Anti-CD48 antibody [EPR29721-7] (ab325192)

CD48 Flow Cytometry staining using rabbit Anti-CD48 antibody

Flow cytometry overlay histogram shows positive A20 cells on the left and negative NIH3T3 cells on the right, stained with ab325192 (red line). Cells were incubated in 1× PBS containing 10 µg/ml anti-CD16/CD32 and 10% normal goat serum to block Fc receptors and non-specific protein-

protein interactions, followed by staining with ab325192 (1×10^6 cells in 100 µl at 0.2 µg/ml, dilution 1:2500) for 30 minutes on ice.

The secondary antibody, Goat Anti-Rabbit IgG H&L (Alexa Fluor 488, ab150077), preadsorbed, was used at a 1:4000 dilution and incubated for 30 minutes on ice.

Isotype control antibody (black line) was Recombinant Rabbit IgG, monoclonal [EPR25A] - Isotype Control, used at the same concentration and conditions as the primary antibody. An unlabelled sample (blue line) was also included as a control.

More than 5, 000 events were acquired using a 50 mW blue laser (488 nm) and a 525/40 bandpass filter.

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