abcam

ab305043

Alexa Fluor® 647 Anti-CD1c antibody [EPR23189-305]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Conjugation	Alexa Fluor® 647
Excitation/Emission	Ex: 650nm, Em: 665nm
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR23189-305
Purification technique	Affinity purification Protein A
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1/500
Notes	-

Target data

See full target information CD1C

Function	Antigen-presenting protein that binds self and non-self lipid and glycolipid antigens and presents them to T-cell receptors on natural killer T-cells.

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, Store in the dark

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.

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Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	CD1c also known as CD1c molecule or R7 is a transmembrane glycoprotein with a molecular weight of approximately 43 kDa. It belongs to the CD1 family of glycoproteins which share structural similarity to major histocompatibility complex (MHC) proteins. CD1c presents lipid and glycolipid antigens to T cells. It is expressed on professional antigen-presenting cells (APCs) like dendritic cells B cells and some monocytes. This expression allows CD1c to function in the immune response by presenting specialized antigens to T cells.
Biological function summary	The function of CD1c involves the presentation of lipid antigens which plays a role in immune recognition. CD1c is a part of a complex that includes β2-microglobulin which stabilizes its structure for antigen presentation. CD1c contributes to the immune surveillance by enabling the recognition of microbial lipid antigens as well as self-lipids by specific T cell subsets. This function supports the body's immune defense by identifying and reacting to potential pathogenic lipids.
Pathways	CD1c is involved in immune response pathways that center around antigen presentation. It interacts with other proteins like CD1a CD1b and CD1d expanding the range of antigens that T cells can recognize. CD1c participates in the lipid antigen presentation pathway influencing both innate and adaptive immunity. The presentation of lipid antigens by CD1c to T cells can trigger signaling pathways that affect both immune activation and resolution.
Associated diseases and disorders	CD1c is implicated in autoimmune diseases and infections. Its role in antigen presentation makes it a potential factor in autoimmune conditions where immune recognition errors might occur. Additionally CD1c may relate to infectious diseases where mycobacteria or other pathogens present unique lipid antigens. Through its interaction with T cell receptors CD1c can impact how well immune responses are mounted against these challenges making it a notable target for therapeutic development and research.

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.

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