abcam

ab323730

PE Anti-LY75/DEC-205 antibody [EPR27222-93]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Conjugation	PE
Excitation/Emission	Ex: 480;565nm, Em: 578nm
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: PBS, 1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR27222-93
Purification technique	Affinity purification Protein A
Specificity	Not suitable for FC-human.
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Mouse

Dilution info	1/50
Notes	-

Predicted

Species	Human
Dilution info	-
Notes	-

Target data

See full target information Ly75

Function	Acts as an endocytic receptor to direct captured antigens from the extracellular space to a specialized antigen-processing compartment. Causes reduced proliferation of B lymphocytes (By similarity).

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	+4°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.

Supplementary info

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

Activity summary	The protein LY75 also known as DEC-205 is a type I transmembrane glycoprotein belonging to the C-type lectin receptor family. It has a molecular mass of approximately 205 kDa. LY75 is expressed mainly on dendritic cells macrophages and B lymphocytes playing a critical role in antigen uptake and processing. The receptor exhibits high-affinity binding to carbohydrate structures facilitating its function in the immune response.
Biological function summary	LY75/DEC-205 functions primarily in the immune system by mediating endocytosis of antigens for processing and presentation to T cells. It operates either alone or as part of a larger protein complex guiding immune surveillance and response. In particular it influences the maturation and activation of dendritic cells critical processes for initiating adaptive immunity.
Pathways	LY75/DEC-205 is integral to the antigen processing and presentation pathway interacting significantly with proteins like the major histocompatibility complex (MHC) molecules. The receptor also engages in the Toll-like receptor signaling pathway linking innate and adaptive immunity through its collaborations with these receptor proteins.
Associated diseases and disorders	LY75/DEC-205 associates with autoimmune diseases and certain cancers. Its expression and function in dendritic cells implicate it in autoimmune conditions such as lupus where immune regulation is disrupted. It may also relate to tumor progression in cancers with an immune evasion component like melanoma. This connection involves proteins like PD-L1 which tumor cells express to escape immune recognition.

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.

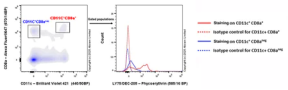
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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1 product image



Flow Cytometry - PE Anti-LY75/DEC-205 antibody [EPR27222-93] (ab323730)

LY75/DEC-205 Flow Cytometry staining of Mouse splenocyte using rabbit Anti-LY75/DEC-205 antibody

Flow cytometric analysis of Mouse splenocyte cells labelling LY75/DEC-205 with ab323730 at 1/50 dilution (1ug) (Red) and Blue compared with a isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Cells were stained with CD11c conjugated to Brilliant Violet 421 and CD8a conjugated to Alexa Fluor® 647. Gated on viable CD11c+ CD8a neg and CD11c+ CD8a+ populations.

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