abcam

ab253241

Anti-CD62L antibody [EPR17012-35]

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	EPR17012-35
Purification technique	Affinity purification Protein A
Concentration	0.525 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Not recommended

Species	Mouse
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Mouse
Dilution info	1/60
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

IHC-P

Not recommended

Species	Mouse
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Mouse
Dilution info	-
Notes	-

IHC-Fr

Not recommended

Species	Mouse
Dilution info	-
Notes	-

Target data

See full target information Sell

Function	Calcium-dependent lectin that mediates cell adhesion by binding to glycoproteins on neighboring cells. Mediates the adherence of lymphocytes to endothelial cells of high endothelial venules in peripheral lymph nodes (PubMed:1693096). Promotes initial tethering and rolling of leukocytes in endothelia (By similarity).

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

ab253241 (EPR17012-35) is the detector of the ssELISA kit ab199085.

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	CD62L also known as L-selectin is a cell adhesion molecule with a mass of approximately 74 kDa. It is part of the L-selectin family and is found on the surface of leukocytes including T cells B cells neutrophils and monocytes. Mouse models frequently study CD62L under the name "MEL-14". CD62L plays an important role in mediating the adhesion and rolling of leukocytes on blood vessel endothelial cells during the immune response. Its structure allows it to interact specifically with carbohydrates on endothelial cells facilitating the initial steps of leukocyte extravasation into tissues.
Biological function summary	CD62L is involved in the migration of leukocytes into lymphoid tissues and sites of inflammation. It is not known to be part of a larger protein complex; rather it functions independently on the cell membrane. CD62L also assists in the homing of naive lymphocytes to peripheral lymph nodes. The molecule regulates how immune cells enter tissues through high endothelial venules acting as a critical entry point for leukocyte trafficking.
Pathways	CD62L contributes significantly to the immune trafficking pathway and leukocyte adhesion cascade. It works closely with other adhesion molecules like CD44 and CD54 (ICAM-1) which are important within the context of cellular responses during inflammation. CD62L's function in these pathways ensures that immune cells are properly directed to areas where they are needed most whether that is secondary lymphoid organs or inflamed tissues.
Associated diseases and disorders	CD62L expression and function have been associated with inflammatory conditions and certain immune-related pathologies such as multiple sclerosis and rheumatoid arthritis. Altered CD62L expression can affect lymphocyte homing potentially playing a role in the pathogenesis of these conditions. The role of CD62L is also linked to proteins like CD44 which can modulate cell interactions and have overlapping functions in disease mechanisms influencing disease progression or resolution.

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

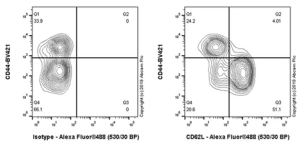
We do not recommend this combination. It is not covered by our product promise.

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

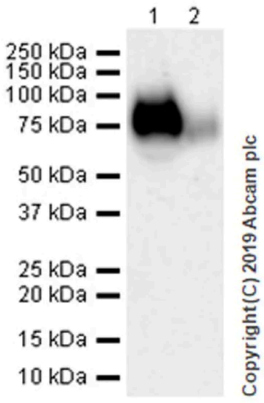


Flow Cytometry - Anti-CD62L antibody [EPR17012-35] (ab253241)

CD62L Flow Cytometry staining using rabbit Anti-CD62L antibody

Flow cytometric analysis of mouse splenocytes labeling CD62L with ab253241 at 1/60 (Right panel) compared with a Rabbit monoclonal IgG (ab172730) (Left panel). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077), at 1/2000 dilution was used as the secondary antibody.
Cells were stained with rabbit IgG (Left) or anti-CD62L RabMab (Right). Then stained with Alexa Fluor® 647-conjugated anti-CD4 and BV421-conjugated anti-CD44. While $CD4^+$ splenocytes express CD62L and CD44, their expressions are mutually exclusive.

Gated on viable $CD4^+$ T cells.



Western blot - Anti-CD62L antibody [EPR17012-35] (ab253241)

CD62L Western blot staining using rabbit Anti-CD62L antibody

The expression profile and molecular weight observed is consistent with what has been described in the literature (PMID: 12165530).
Blocking/Dilution buffer: 5% NFDM/TBST.

All lanes:
Western blot - Anti-CD62L antibody [EPR17012-35] (ab253241) at 1/1000 dilution

Lane 1:
Mouse serum at 20 µg

Lane 2:
Mouse lymph node lysate at 20 µg

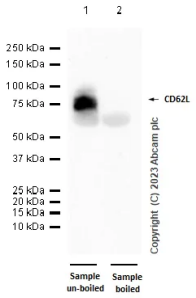
Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 42 kDa

Observed band size: 75-100 kDa

Exposure time: 136s



Western blot - Anti-CD62L antibody [EPR17012-35] (ab253241)

CD62L Western blot staining using rabbit Anti-CD62L antibody

For better using this antibody, we recommend not to boil your sample.
Blocking and diluting buffer: 5% NFDM /TBST.

Lanes 1 - 2:
Western blot - Anti-CD62L antibody [EPR17012-35] (ab253241) at 1/1000 dilution

Lanes 1 - 2:
Western blot - Anti-CD62L antibody [EPR17012-35] - BSA and Azide free (ab254204) at 1/1000 dilution

Lane 1:
Mouse serum unboiled at 20 µg

Lane 2:
Mouse serum boiled at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 75 kDa

Exposure time: 20s

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