abcam

ab6630

Anti-CD62E antibody [1.2B6]

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	Preservative: 0.09% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Full Length Protein corresponding to Human SELE. The exact immunogen used to generate this antibody is proprietary information. Database link P16581
Clone number	1.2B6
Purification technique	Affinity purification Protein A
Specificity	This antibody recognises the human CD62E and CD62P cell surface antigens binding to a common epitope on these members of the selectin family.
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant.

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	10 µg/mL

Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

IHC-P

Not recommended

Species	Human
Dilution info	-
Notes	-

Target data

See full target information SELE

Function	Cell-surface glycoprotein having a role in immunoadhesion. Mediates in the adhesion of blood neutrophils in cytokine-activated endothelium through interaction with SELPLG/PSGL1. May have a role in capillary morphogenesis.

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

Notes

This antibody inhibits neutrophil adhesion to E-selectin and to P-selectin. E-selectin (ELAM-1) is expressed on the surface of activated endothelial cells.

Supplementary info

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

Activity summary	CD62E also known as E-selectin or ELAM-1 is a cell adhesion molecule with a mass of approximately 115 kDa. It is present mainly on endothelial cells activated by cytokines. As a transmembrane glycoprotein E-selectin plays a mechanical role in mediating the tethering and rolling of leukocytes on the vascular endothelium during the inflammatory response. This function is important in directing leukocytes to sites of tissue damage or infection.
Biological function summary	E-selectin facilitates leukocyte adhesion by binding specific carbohydrate ligands on the surface of circulating immune cells. This binding is critical in the cascade of events that leads to leukocyte extravasation into tissues. E-selectin does not work in isolation rather forming part of a complex interaction with other cell adhesion molecules such as P-selectin and L-selectin. These interactions ensure precise control of cellular traffic during inflammatory responses.
Pathways	CD62E engages in the inflammatory signaling pathways including the NF-kB pathway. This pathway modulates the expression of E-selectin in response to pro-inflammatory cytokines like interleukin-1 and tumor necrosis factor-alpha. CD62E interacts with integrins on leukocytes and has downstream effects on cellular processes involved in immune response. Its cooperation with proteins like ICAM-1 and VCAM-1 further integrates it into a network of adhesion molecules maintaining vascular stability and immune surveillance.
Associated diseases and disorders	E-selectin expression is highly relevant in inflammatory diseases such as rheumatoid arthritis and atherosclerosis. These disorders involve chronic inflammation where the persistent activation of endothelial cells and overexpression of E-selectin contribute to pathology. The link with ICAM-1 in these settings suggests a mutual regulation between cell adhesion molecules enhancing leukocyte recruitment to inflamed tissues. This makes E-selectin not only a marker of endothelial activation but also a potential therapeutic target for modulating leukocyte adhesion in inflammatory diseases.

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

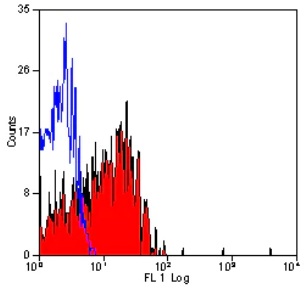
We do not recommend this combination. It is not covered by our product promise.

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.

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1 product image



Flow Cytometry - Anti-CD62E antibody [1.2B6] (ab6630)

CD62E Flow Cytometry staining using mouse Anti-CD62E antibody

ab6630 staining CD62E in thrombin activated human peripheral blood platelets by Flow Cytometry analysis.

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