abcam

**ab47075**

# Anti-CD62E antibody [B-P7] - BSA and Azide free

## Key facts

| | |
|---|---|
| **Isotype** | IgG1 |
| **Host species** | Mouse |
| **Storage buffer** | pH: 7.3 - 7.5 Constituents: PBS |
| **Form** | Liquid |
| **Clonality** | Monoclonal |
| **Immunogen** | Cell preparation containing SELE protein. The exact immunogen used to generate this antibody is proprietary information. Database link P16581 |
| **Carrier free** | Yes |
| **Clone number** | B-P7 |
| **Purification technique** | Ion exchange chromatography |
| **Specificity** | Recognises soluble Endothelial Leucocyte Adhesion Molecule-1 (ELAM-1), E-selectin |
| **Light chain type** | lambda |
| **Concentration** | 1 mg/mL The concentration of this product may be batch-dependent<br>Batch concentration finder → |

## Reactivity data

## IP

**Not recommended**

| | |
|---|---|
| **Species** | Transfected cell line - Human, Human |

| | |
|---|---|
| **Dilution info** | - |
| **Notes** | - |

## Flow Cyt

### Tested

| | |
|---|---|
| **Species** | Transfected cell line - Human |
| **Dilution info** | - |
| **Notes** | ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody. |

### Predicted

| | |
|---|---|
| **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** | +4°C |
| **Aliquoting information** | Upon delivery aliquot |

| | |
|---|---|
| **Storage information** | Avoid freeze / thaw cycle |

## 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.

---

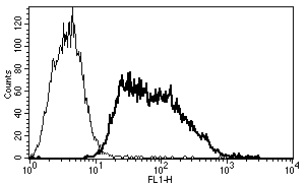
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

---

## 1 product image




### Flow Cytometry - Anti-CD62E antibody [B-P7] - BSA and Azide free (ab47075)

A typical staining pattern with ab47075 of ELAM-1 transfected CHO cell line

---

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