

Monoclonal Antibody to CD62E / E-Selectin (+CD62P) - FITC

Alternate names:	CD62 antigen-like family member E, ELAM1, Endothelial leukocyte adhesion molecule 1, LECAM2, Leukocyte-endothelial cell adhesion molecule 2, SELE
Catalog No.:	BM311F
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	CD62E is also known as endothelial leukocyte adhesion molecule 1 (ELAM1) or E selectin. It is a type I membrane protein that belongs to the selectin family of surface molecules (along with CD62L and CD62P). Selectins are C type cell surface lectins that play a role in leukocyte adhesion to the blood vessel wall endothelium. CD62E (E selectin) is an endothelial cell specific selectin that is expressed on cytokine induced endothelial cells only after activation with proinflammatory cytokines. In vitro experiments have shown that IL1, TNFalpha and bacterial wall components like lipopolysaccharides induce the transcription of CD62E in an NFkB dependent signalling cascade. CD62E has been associated with blood vessel endothelium in diverse inflammatory situations. The main ligands recognised by CD62E are oligosaccharides related to sialyl lewis x.
Uniprot ID:	P16581
NCBI:	NP_000441
GeneID:	6401
Host / Isotype:	Mouse / IgG1
Clone:	1.2B6
Immunogen:	Human E-Selectin (ELAM-1). Spleen cells from immunised BALB/c mice were fused with cells of the NS1 mouse myeloma cell line.
Format:	State: Liquid purified IgG fraction. Purification: Affinity Chromatography on Protein A. Buffer System: PBS, pH 7.4, containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: Use 10µl of neat antibody to label 1 x 10e6 cells in 100µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognizes the CD62E and CD62P cell surface antigens. Although previously thought to recognise only Human CD62E, recent data shows that this antibody also recognizes Human CD62P, binding to a common epitope shared by these members of the

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selectin family.

Species Reactivity: Tested: Human.

Expected from sequence similarity: Pig.

Storage:

Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light.

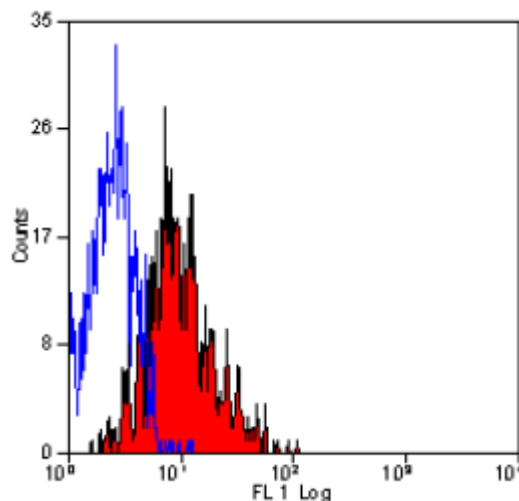
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General References:

1. Wellicome, S.M. et al. (1990) A monoclonal antibody that detects a novel antigen on endothelial cells that is induced by TNF, IL-1 or lipopolysaccharide. *J. Immunol.* 144: 2558-2565.
2. Thornhill, M.H. et al. (1990) IL-4 regulates endothelial cell activation by IL-1, tumor necrosis factor, or IFN-gamma. *J. Immunol.* 145: 865-872.
3. Kyan-Aung, V et al. (1991) Endothelial leukocyte adhesion molecule-1 and intercellular adhesion molecule-1 mediate the adhesion of eosinophils to endothelial cells in vitro and are expressed by endothelium in allergic cutaneous inflammation in vivo. *J. Immunol.* 146: 521-528.
4. Keelan, E.T. et al. (1994) Characterisation of E-Selectin expression in vivo using a radiolabelled monoclonal antibody. *Am. J. Physiol.* 266: H278-290.
5. Goda, K. et al. (1999) Characterization of an apparently conserved epitope in E- and P-selectin identified by dual specific monoclonal antibodies. *Eur. J. Immunol.* 29: 1551-1560.
6. Urquhart, P. et al. (2007) Carbon monoxide-releasing molecules modulate leukocyte-endothelial interactions under flow. *J Pharmacol Exp Ther* 321: 656-662.
7. Gómez del Moral, M. et al. (1999) African swine fever virus infection induces tumor necrosis factor alpha production: implications in pathogenesis. *J Virol.* 73: 2173-80.
8. Burton, V.J. et al. (2011) Bone morphogenetic protein receptor II regulates pulmonary artery endothelial cell barrier function. *Blood.* 117: 333-41.
9. Stocker, C.J. et al. (2000) TNF-alpha, IL-4, and IFN-gamma regulate differential expression of P- and E-selectin expression by porcine aortic endothelial cells. *J Immunol.* 164: 3309-15.

Pictures:



Staining of Thrombin activated human peripheral blood platelets with FITC conjugated Mouse Anti Human CD62E/CD62P antibody

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