



# Rat Anti-Mouse E-selectin (CD62E) Monoclonal antibody, clone 9A9 (CABT-L4523)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

**Product Overview** The 9A9 monoclonal antibody reacts with mouse E-selectin also known as CD62E, endothelial-leukocyte adhesion molecule 1 (ELAM-1), and leukocyte-endothelial cell adhesion molecule 2 (LECAM2). E-selectin is a 115 kDa type I transmembrane protein and a member of the selectin family of adhesion molecules. E-selectin is expressed on cytokine-activated endothelial cells. Along with L-selectin and P-selectin, E-selectin mediates the initial interactions of leukocytes and platelets with endothelial cells. E-selectin is thought to play a role in inflammation, tumor metastasis, and angiogenesis. The 9A9 antibody has been shown to reduce the migration efficiency of Th1 cells and block E-selectin-mediated rolling.

<b>Target</b>	Mouse E-selectin (CD62E)
<b>Immunogen</b>	COS-expressed, recombinant mouse E-selectin
<b>Isotype</b>	IgG2B
<b>Source/Host</b>	Rat
<b>Species Reactivity</b>	Mouse
<b>Clone</b>	9A9
<b>Purification</b>	Protein G purified. Purity>95%. Determined by SDS-PAGE
<b>Conjugate</b>	Functional Grade
<b>Applications</b>	in vivo?E-selectin blockade, in vitro?E-selectin blockade, IHC-F
<b>Molecular Weight</b>	150 kDa
<b>Format</b>	0.2 µm filtration liquid. Purified from tissue culture supernatant in an animal free facility

<b>Concentration</b>	Lot specific
<b>Size</b>	5 mg
<b>Buffer</b>	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free]  Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB04
<b>Preservative</b>	None
<b>Storage</b>	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
<b>Ship</b>	Wet ice

## BACKGROUND

<b>Introduction</b>	The protein encoded by this gene is found in cytokine-stimulated endothelial cells and is thought to be responsible for the accumulation of blood leukocytes at sites of inflammation by mediating the adhesion of cells to the vascular lining. It exhibits structural features such as the presence of lectin- and EGF-like domains followed by short consensus repeat (SCR) domains that contain 6 conserved cysteine residues. These proteins are part of the selectin family of cell adhesion molecules. Adhesion molecules participate in the interaction between leukocytes and the endothelium and appear to be involved in the pathogenesis of atherosclerosis. [provided by RefSeq, Jul 2008]
<b>Keywords</b>	SELE;selectin E;ELAM;ESEL;CD62E;ELAM1;LECAM2;E-selectin;ELAM-1;endothelial adhesion molecule 1;CD62 antigen-like family member E;endothelial leukocyte adhesion molecule 1;leukocyte endothelial cell adhesion molecule 2;leukocyte-endothelial cell adhesion molecule 2;

## GENE INFORMATION

<b>Official Symbol</b>	selectin E
<b>Synonyms</b>	SELE; selectin E; ELAM; ESEL; CD62E; ELAM1; LECAM2; E-selectin; ELAM-1; endothelial adhesion molecule 1; CD62 antigen-like family member E; endothelial leukocyte adhesion molecule 1; leukocyte endothelial cell adhesion molecule 2; leukocyte-endothelial cell adhesion molecule 2;
<b>References</b>	Liu, Z., et al. (2016). "Replacing the Promoter of the Murine Gene Encoding P-selectin with the Human Promoter Confers Human-like Basal and Inducible Expression in Mice." J Biol Chem 291(3): 1441-1447.;Harris, J. G., et al. (1996). "Relative contribution of the selectins in the

neutrophil recruitment caused by the chemokine cytokine-induced neutrophil chemoattractant (CINC)." Biochem Biophys Res Commun 221(3): 692-696.;

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