



# Mouse Anti-Human E-Selectin Monoclonal antibody, clone CL2 (CABT-L4427)

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

## PRODUCT INFORMATION

### Product Overview

The CL2 monoclonal antibody reacts with human 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 CL2 antibody has been shown to inhibit neutrophil adhesion to E-selectin and to P-selectin.

<b>Target</b>	Human E-Selectin
<b>Immunogen</b>	C57BL/6 mouse thioglycollate stimulated peritoneal macrophages
<b>Isotype</b>	IgG2a, κ
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	CL2
<b>Purification</b>	Protein G purified. Purity>95%. Determined by SDS-PAGE
<b>Conjugate</b>	Functional Grade
<b>Applications</b>	FC
<b>Molecular Weight</b>	150 kDa
<b>Format</b>	0.2 μM filtered 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>	Goncharova, V., et al. (2014). "Homing of neural stem cells from the venous compartment into a brain infarct does not involve conventional interactions with vascular endothelium." Stem Cells Transl Med 3(2): 229-240. PubMed;