



Rat Anti-Mouse PSGL-1 (CD162) Monoclonal antibody, clone 4RA10 (CABT-L4460)

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

PRODUCT INFORMATION

Product Overview	The 4RA10 monoclonal antibody reacts with mouse P-selectin glycoprotein ligand-1 (PSGL-1) also known as CD162. PSGL-1 is a 230 kDa glycoprotein that is expressed by bone marrow-derived mast and dendritic cells, splenic leukocytes, platelets, peripheral blood neutrophils, and T lymphocytes. PSGL-1 is a ligand for P-selectin (CD62P) and plays roles in leukocyte rolling, the migration of leukocytes into inflamed tissues, and responses to vascular injury. The 4RA10 antibody is reported to block the binding of mouse leukocytes to CD62P and CD62L.
Target	Mouse PSGL-1 (CD162)
Immunogen	Mouse PSGL-1 human IgG1 fusion protein
Isotype	IgG1, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	4RA10
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo PSGL-1 blockade, IHC-F
Molecular Weight	150 kDa
Format	0.2 μM filtered liquid. Purified from tissue culture supernatant in an animal free facility
Concentration	Lot specific

Size	5 mg
Buffer	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
Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	This gene encodes a glycoprotein that functions as a high affinity counter-receptor for the cell adhesion molecules P-, E- and L- selectin expressed on myeloid cells and stimulated T lymphocytes. As such, this protein plays a critical role in leukocyte trafficking during inflammation by tethering of leukocytes to activated platelets or endothelia expressing selectins. This protein requires two post-translational modifications, tyrosine sulfation and the addition of the sialyl Lewis x tetrasaccharide (sLex) to its O-linked glycans, for its high-affinity binding activity. Aberrant expression of this gene and polymorphisms in this gene are associated with defects in the innate and adaptive immune response. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Apr 2011]
Keywords	SELPLG;selectin P ligand;CLA;CD162;PSGL1;PSGL-1;P-selectin glycoprotein ligand 1;cutaneous lymphocyte-associated associated antigen;

GENE INFORMATION

Official Symbol	selectin P ligand
Synonyms	SELPLG; selectin P ligand; CLA; CD162; PSGL1; PSGL-1; P-selectin glycoprotein ligand 1; cutaneous lymphocyte-associated associated antigen;
References	Biswas, A., et al. (2015). "Ly6C(high) monocytes control cerebral toxoplasmosis." J Immunol 194(7): 3223-3235. PubMed;