

Rabbit anti-Human, Rat SELPLG Polyclonal Antibody | anti-SELPLG antibody

SELPLG Antibody

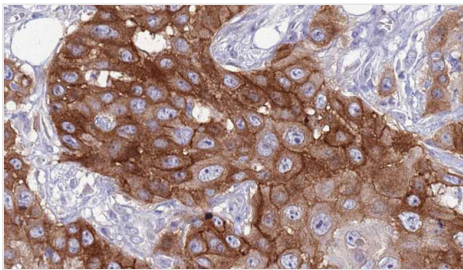
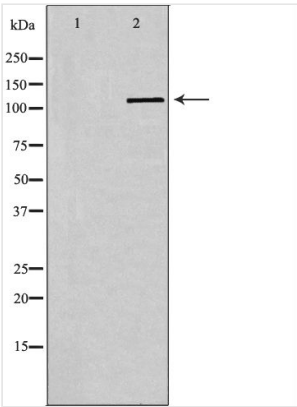
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326302	Rabbit	Human, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

SELPLG; Polyclonal Antibody; SELPLG Antibody; CD 162; CD162; CD162 antigen; CLA; Cutaneous lymphocyte associated associated antigen; P selectin glycoprotein ligand 1; P selectin glycoprotein ligand 1 precursor; P-selectin glycoprotein ligand 1; PSGL 1; PSGL-1; PSGL1; Selectin P ligand; SELPL_HUMAN; anti-SELPLG antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	SELPLG antibody detects endogenous levels of total SELPLG
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	428
Applicable Applications for anti-SELPLG antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human SELPLG
Subcellular Location	Membrane.
Tissue Specificity	Expressed on neutrophils, monocytes and most lymphocytes.
Predicted Cross Reactivity	Horse
Similarity	Horse (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA326302 at 1/100 staining Human Head and neck cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of extracts of Jurkat, using SELPLG antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-SELPLG antibody

Description: 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]
Function: A SLe(x)-type proteoglycan, which through high affinity, calcium-dependent interactions with E-, P- and L-selectins, mediates rapid rolling of leukocytes over vascular surfaces during the initial steps in inflammation. Critical for the initial leukocyte capture.
Subunit Structure: Homodimer; disulfide-linked. Interaction with P-, E- and L-selectins, through their lectin/EGF domains, is required for promoting recruitment and rolling of leukocytes. These interactions require sialyl Lewis X glycan modification but there is a differing dependence for tyrosine sulfations. Sulfation on Tyr-51 of PSGL1 is most important for high affinity L-selectin/SELL binding while P-selectin/SELP requires sulfation on Tyr-48. E-selectin/SELE binds with much lower affinity and requires the sLe(x) epitope, but apparently not tyrosine sulfation. Dimerization appears not to be required for P-selectin/SELP binding. Interacts with SNX20. Interacts with MSN and SYK; mediates the activation of SYK by SELPLG.
Post-translational Modifications: Displays complex, core-2, sialylated and fucosylated O-linked oligosaccharides, at least some of which appear to contain poly-N-acetylactosamine with varying degrees of substitution. Mainly disialylated or neutral forms of the core-2 tetrasaccharide, Galbeta1--> 4GlcNAcbeta1--> 6(Galbeta1--> 3)GalNAcOH. The GlcN:GalN ratio is approximately 2:1 and the Man:Fuc ratio 3:5. Contains about 14% fucose with alpha-1, 3 linkage present in two forms: One species is a disialylated, monofucosylated glycan, and the other, a monosialylated, trifucosylated glycan with a polylactosamine backbone. The fucosylated forms carry the Lewis antigen and are important for interaction with selectins and for functioning in leukocyte rolling. The modification containing the sialyl Lewis X glycan is on Thr-57. No sulfated O-glycans. Some N-glycosylation. Sulfation, in conjunction with the SLe(x)-containing glycan, is necessary for P- and L-selectin binding. High affinity P-selectin binding has a preferred requirement for the isomer sulfated on both Tyr-48 and Tyr-51, whereas L-selectin binding requires predominantly sulfation on Tyr-51 with sulfation on Tyr-48 playing only a minor role. These sulfations play an important role in L- and P-selectin-mediated neutrophil recruitment, and leukocyte rolling.

NCBI AND UNIPROT INFORMATION

NCBI GI #	331284238
NCBI GeneID	6404
NCBI Accession #	NP_001193538.1
NCBI GenBank Nucleotide #	NM_001206609.1
UniProt Accession #	Q14242; Q12775; Q6GTW7; Q8N7J7; A8K2Y0; B4DQC3; B7Z5C7; J3KMX6

Molecular Weight	Observed: 120 kDa Predicted: 44 kDa
NCBI Official Full Name	P-selectin glycoprotein ligand 1 isoform 1
NCBI Official Synonym Full Names	selectin P ligand
NCBI Official Symbol	SELPLG
NCBI Official Synonym Symbols	CLA; CD162; PSGL1; PSGL-1
NCBI Protein Information	P-selectin glycoprotein ligand 1
UniProt Protein Name	P-selectin glycoprotein ligand 1
UniProt Gene Name	SELPLG
UniProt Synonym Gene Names	PSGL-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/selplg-antibody-immunohistochemistry-western-blot-elisa/326302>