

ARG45421 anti-CD162 / PSGL1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CD162 / PSGL1
Tested Reactivity	Ms, Rat
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CD162 / PSGL1
Species	Mouse
Immunogen	Recombinant protein containing to mouse CD162 / PSGL1.
Conjugation	Un-conjugated
Alternate Names	SELPLG; Selectin P ligand; PSGL1; P-selectin glycoprotein ligand 1; PSGL-1; CD162; CLA; CD antigen CD162

Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/10 ⁶ cells
	IHC-P	0.5-1 µg/ml
	WB	0.25-0.5 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	110 - 120 kDa	

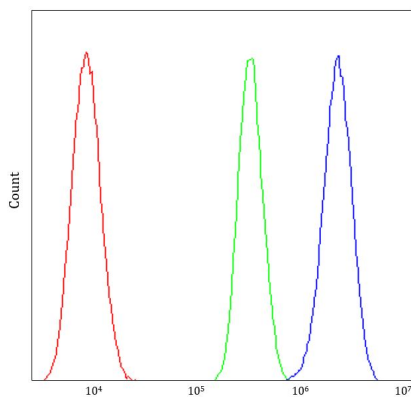
Properties

Form	Powder
Purification	Affinity purified
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

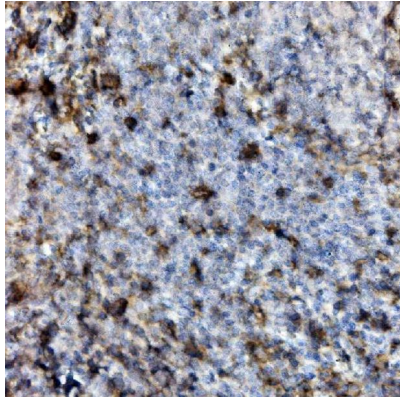
Gene Symbol	SELPLG
Gene Full Name	selectin P ligand
Background	CD162 (P-selectin glycoprotein ligand-1, PSGL-1) is a sialomucin constitutively expressed as a disulfide-linked homodimer of two 120 kDa subunits on the surface of circulating leukocytes. CD162 serves as a ligand for P- E- and L-selectin, with the highest affinity for P-selectin. It is thus involved in leukocyte rolling at the endothelial surfaces, prerequisite for firm leukocyte adhesion and subsequent transendothelial migration. CD162 also mediates leukocyte-platelet adhesion and interleukocyte contacts. Whereas serving as an adhesion molecule on mature leukocytes, CD162 is a potent negative regulator of human hematopoietic progenitors.
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. [UniProt]. [UniProt]
Calculated Mw	43 kDa
PTM	Displays complex, core-2, sialylated and fucosylated O-linked oligosaccharides, at least some of which appear to contain poly-N-acetyllactosamine 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. [UniProt]
Cellular Localization	Cell membrane. [UniProt]

Images



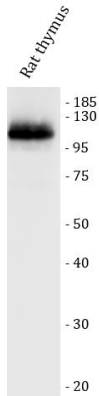
ARG45421 anti-CD162 / PSGL1 antibody FACS image

Flow Cytometry: NRK stained with ARG45421 anti-CD162 / PSGL1 antibody at 1 $\mu\text{g}/10^6$ cells dilution.



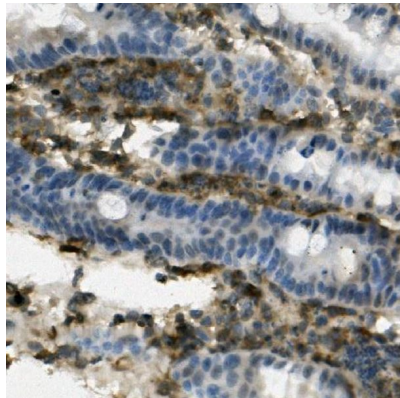
ARG45421 anti-CD162 / PSGL1 antibody IHC-P image

Immunohistochemistry: Rat spleen stained with ARG45421 anti-CD162 / PSGL1 antibody at 1 $\mu\text{g}/\text{ml}$ dilution.



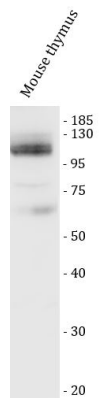
ARG45421 anti-CD162 / PSGL1 antibody WB image

Western blot: Rat thymus stained with ARG45421 anti-CD162 / PSGL1 antibody at 0.5 $\mu\text{g}/\text{ml}$ dilution.



ARG45421 anti-CD162 / PSGL1 antibody IHC-P image

Immunohistochemistry: Mouse intestine stained with ARG45421 anti-CD162 / PSGL1 antibody at 1 $\mu\text{g}/\text{ml}$ dilution.



ARG45421 anti-CD162 / PSGL1 antibody WB image

Western blot: Mouse thymus stained with ARG45421 anti-CD162 / PSGL1 antibody at 0.5 $\mu\text{g}/\text{ml}$ dilution.