

**ARG62745**  
**anti-CD162 / PSGL1 antibody [TC2]**Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [TC2] recognizes CD162 / PSGL1
Tested Reactivity	Hu
Tested Application	FACS
Specificity	The clone TC2 reacts with CD162, a 220 kDa type I integral membrane protein expressed as disulfide-linked homodimer (sialomucin family). CD162 is present on the most peripheral blood T lymphocytes, monocytes, granulocytes; it is also expressed on a subpopulation of B lymphocytes and CD34 <sup>+</sup> bone marrow cells.
Host	Mouse
Clonality	Monoclonal
Clone	TC2
Isotype	IgG1
Target Name	CD162 / PSGL1
Species	Human
Immunogen	Human thymocytes
Conjugation	Un-conjugated
Alternate Names	Selectin P ligand; PSGL1; P-selectin glycoprotein ligand 1; PSGL-1; CD162; CLA; CD antigen CD162

### Application Instructions

Application table	<table><thead><tr><th>Application</th><th>Dilution</th></tr></thead><tbody><tr><td>FACS</td><td>1.5 - 2.5 µg/ml</td></tr></tbody></table>	Application	Dilution	FACS	1.5 - 2.5 µg/ml
Application	Dilution				
FACS	1.5 - 2.5 µg/ml				
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.				
Positive Control	FACS: Human peripheral blood.				

### Properties

Form	Liquid
Purification	Purified from ascites by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 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

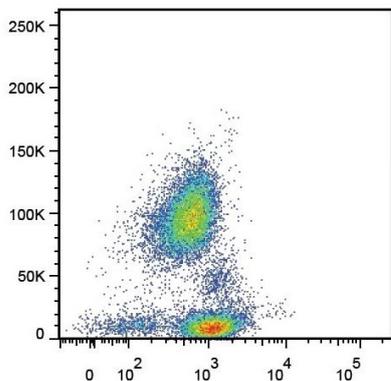
freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Database links	<a href="#">GeneID: 6404 Human</a> <a href="#">Swiss-port # Q14242 Human</a>
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]
Research Area	Cell Biology and Cellular Response antibody; Immune System antibody
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-acetylglucosamine 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.

## Images



ARG62745 anti-CD162 / PSGL1 antibody [TC2] FACS image

Flow Cytometry: Human peripheral blood cells stained with ARG62745 anti-CD162 / PSGL1 antibody [TC2], followed by incubation with FITC labelled secondary antibody.