

Datasheet for ABIN7566323

SELPLG Protein (AA 42-305) (Fc Tag)



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Quantity:	50 µg
Target:	SELPLG
Protein Characteristics:	AA 42-305
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SELPLG protein is labelled with Fc Tag.
Product Details	
Purpose:	PSGL-1 (human):Fc (human) (rec.)
Purpose: Cross-Reactivity:	PSGL-1 (human):Fc (human) (rec.) Human
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Cross-Reactivity:	Human
Cross-Reactivity:	Human The extracellular domain of human PSGL-1 (aa 42-305) is fused at the C-terminus to the Fc
Cross-Reactivity: Characteristics:	Human The extracellular domain of human PSGL-1 (aa 42-305) is fused at the C-terminus to the Fc portion of human IgG1.
Cross-Reactivity: Characteristics: Purity:	Human The extracellular domain of human PSGL-1 (aa 42-305) is fused at the C-terminus to the Fc portion of human IgG1. >95 % (SDS-PAGE)
Cross-Reactivity: Characteristics: Purity: Endotoxin Level:	Human The extracellular domain of human PSGL-1 (aa 42-305) is fused at the C-terminus to the Fc portion of human IgG1. >95 % (SDS-PAGE) <0.01EU/µg purified protein (LAL test).
Cross-Reactivity: Characteristics: Purity: Endotoxin Level: Biological Activity Comment:	Human The extracellular domain of human PSGL-1 (aa 42-305) is fused at the C-terminus to the Fc portion of human IgG1. >95 % (SDS-PAGE) <0.01EU/µg purified protein (LAL test).

Target Details PSGL-1 (SELPLG Products) Alternative Name: Background: P-selectin Glycoprotein Ligand 1, Selectin P Ligand, CD162, SELPLG P-selectin glycoprotein ligand-1 (PSGL-1) is a 120kda transmembrane homodimer protein that is primarily expressed on lymphoid and myeloid cells, including platelets. PSGL-1 was first identified to regulate the rolling/tethering of neutrophils on activated endothelium through Pselectin binding. PSGL-1 binds P-, E- and L- selectin through the N-terminus of the extracellular domain upon special glycosylation (sialyl Lewis x). PSGL-1 functions in regulating the migration of macrophages/monocytes, plasma B cells, dendritic cells and T cells by selectin engagement. PSGL-1 also regulates localization of macrophages, dendritic cells and B cells in the lamina propria at steady state. Although PSGL-1 is expressed on resting T cells, selectin binding capacity is only acquired during the proliferation/differentiation of effector T cells. In addition to its migratory properties, the adhesion protein PSGL-1 also functions in a selectin-independent manner as a negative regulator of T cell responses in contexts of chronic viral infection, cancer and some autoimmune diseases. For this immune checkpoint function, it has recently been reported that PSGL-1 binds the negative immune checkpoint regulator VISTA (V-domain immunoglobulin suppressor of T cell activation). PSGL-1 expressed on leukocytes binds to multimeric VISTA at acidic pH, but not at the physiological pH 7. This acidic influence of the binding is due to multiple histidine residues protonation located in the VISTA extracellular domain. VISTA - PSGL-1 interaction shows that immune response can be regulated by acidic environments found in tumors. Identification of PSGL-1 - VISTA signaling pathways in T cells could lead to new therapeutic targets that increase immune function, such as in chronic viral infections or in cancer, or attenuate immune function such as in autoimmunity. Molecular Weight: ~95-100kDa (SDS-PAGE) UniProt: Q14242 **Application Details** Restrictions: For Research Use only Handling Format: Lyophilized

1 mg/mL after reconstitution

1 mg/mL

Contains PBS.

Reconstitution:

Concentration:

Buffer:

Handling

Handling Advice:	After reconstitution, prepare aliquots and store at -20 °C.Avoid freeze/thaw cycles.Centrifuge lyophilized vial before opening and reconstitution.PBS containing at least 0.1 % BSA should be used for further dilutions.
Storage:	4 °C,-20 °C
Storage Comment:	Short Term Storage: +4°C Long Term Storage: -20°C Use & Stability: Stable for at least 6 months after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.