

ARG65406 anti-CD62P / P-Selectin antibody [AK4] (low endotoxin)

Package: 100 µg
Store at: -20°C

Summary

Product Description	Azide free and low endotoxin Mouse Monoclonal antibody [AK4] recognizes CD62P / P-Selectin
Tested Reactivity	Hu, NHuPrm
Tested Application	FACS, FuncSt, ICC/IF, IP, WB
Specificity	The clone AK4 recognizes an extracellular epitope of CD62P (P-selectin), a 140 kD single chain type I transmembrane glycoprotein present in secretory alpha-granules in platelets, in Weibel-Palade bodies in endothelial cells and in megakaryocytes; it is relocated to the plasma membrane upon activation. Workshop: HLDA VI: WS Code P-44.
Host	Mouse
Clonality	Monoclonal
Clone	AK4
Isotype	IgG1
Target Name	CD62P / P-Selectin
Species	Human
Immunogen	Human platelets
Conjugation	Un-conjugated
Alternate Names	PADGEM; CD62; Platelet activation dependent granule-external membrane protein; CD62 antigen-like family member P; GMP140; PSEL; Granule membrane protein 140; CD62P; CD antigen CD62P; Leukocyte-endothelial cell adhesion molecule 3; GRMP; GMP-140; P-selectin; LECAM3

Application Instructions

Application table	Application	Dilution
	FACS	1.5 µg/ml
	FuncSt	Assay-dependent
	ICC/IF	Assay-dependent
	IP	Assay-dependent
	WB	Assay-dependent
Application Note	Functional studies: Blocking. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

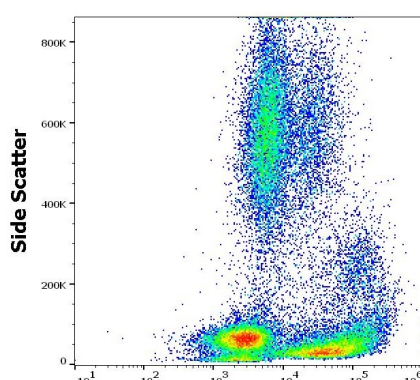
Form	Liquid
Purification	Purification with Protein A.

Purification Note	0.2 µm filter sterilized. Endotoxin level is 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4)
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

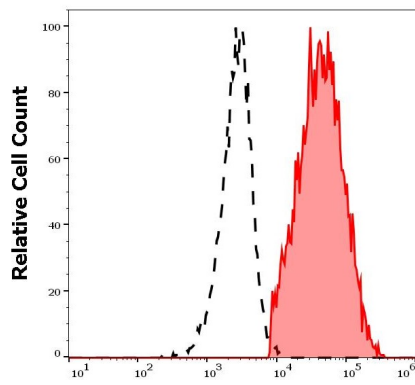
Database links	GeneID: 6403 Human Swiss-port # P16109 Human
Gene Symbol	SELP
Gene Full Name	selectin P (granule membrane protein 140kDa, antigen CD62)
Background	CD62P (P-selectin) is an adhesion glycoprotein that is expressed on platelets and endothelial cells upon their activation. Interaction between CD62P and its mucin-like ligand PSGL-1 (P-selectin glycoprotein ligand-1) expressed on the microvilli of most leukocytes supports leukocyte rolling along postkapillary venules at the earliest time of inflammation. Both CD62P and PSGL-1 are extended glycoproteins that form homodimers. CD62P dimerization is probably mediated through interactions of the transmembrane domains and stabilizes leukocyte tethering and rolling, probably by increasing rebinding within a bond cluster.
Function	Ca(2+)-dependent receptor for myeloid cells that binds to carbohydrates on neutrophils and monocytes. Mediates the interaction of activated endothelial cells or platelets with leukocytes. The ligand recognized is sialyl-Lewis X. Mediates rapid rolling of leukocyte rolling over vascular surfaces during the initial steps in inflammation through interaction with PSGL1. [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Developmental Biology antibody; Immune System antibody
Calculated Mw	91 kDa

Images



ARG65406 anti-CD62P / P-Selectin antibody [AK4] (low endotoxin)
FACS image

Flow Cytometry: Human peripheral blood stained with ARG65406 anti-CD62P / P-Selectin antibody [AK4] (low endotoxin) at 1 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.



ARG65406 anti-CD62P / P-Selectin antibody [AK4] (low endotoxin)
FACS image

Flow Cytometry: Separation of human thrombocytes (red-filled) from CD62P negative lymphocytes (black-dashed). Human peripheral whole blood stained with ARG65406 anti-CD62P / P-Selectin antibody [AK4] (low endotoxin) at 1 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.