

P-Selectin Monoclonal Antibody (AK-6)

Catalog NumberMA5-16570

Product data sheet

Details		Species Reactivity	
Size	1 mg	Species reactivity	Human, Rhesus monkey
Host/Isotope	Mouse / IgG1	Published species	Human
Class	Monoclonal	Tested Applications	
Type	Antibody	Flow Cytometry (Flow)	Dilution *1:10-1:100
Clone	AK-6	Immunohistochemistry (Frozen) (IHC (F))	1:1,000-1:5,000
Immunogen	Human platelet membrane glycoproteins	Immunohistochemistry (Paraffin) (IHC (P))	1:500-1:200
Conjugate	Unconjugated	Western Blot (WB)	Assay-dependent
Form	Liquid	Immunocytochemistry (ICC/IF)	Assay-dependent
Concentration	1 mg/mL	Published Applications	
Purification	Protein A	Flow Cytometry (Flow)	See 1 publications below
Storage buffer	PBS	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Contains	no preservative		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

For FACS analysis, use 10 µL of the suggested working dilution to label 1x10^6 cells in 100 µL. A suggested positive control for immunohistochemical applications is human tonsil. Mouse anti Human CD62P antibody, clone AK-6 recognizes the CD62P, also known as P-selectin, Granule membrane protein 140, GMP140, Leukocyte-endothelial cell adhesion molecule 3 or Platelet activation dependent granule-external membrane protein.

Background/Target Information

P-selectin (Selectin P, GMP-140, LECAM3, CD62 antigen-like family member) is a 140 kDa type 1 transmembrane glycoprotein, and is one of the most commonly studied proteins that regulate cell rolling. P-selectin is stored in the Weibel-Palade bodies of endothelial cells, as well as in a-granules of platelets. From there, it can be rapidly brought to the cell surface after exposure to thrombin, histamine, complement 5a, Ca21 ionophores, or adenosine diphosphate. P-selectin protein redistributes to the plasma membrane during platelet activation and degranulation and mediates the interaction of activated endothelial cells or platelets with leukocytes. P-selectin plays an important role in adhesive processes between leucocytes and endothelial cells, and is a calcium dependent receptor that binds to sialylated forms of Lewis blood group carbohydrate antigens found on neutrophils and monocytes. P-selectin is constitutively expressed in inflammation and contributes to atherogenesis, thrombosis and tissue destruction. Clinically, P-selectin is used to distinguish heparin induced thrombocytopenia with and without thrombosis.

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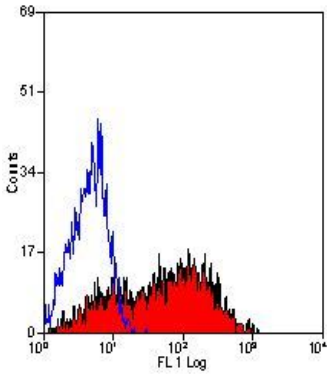
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P-Selectin Antibody (MA5-16570) in Flow

Flow cytometric analysis of thrombin activated human platelets with Mouse anti Human CD62P, Azide Free



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PubMed References For P-Selectin Monoclonal Antibody (AK-6)

1 Flow Cytometry References

Species / Dilution	Summary
Human / Not Cited	<p>MA516570 was used in flow cytometry to show that non-mammalian sources of collagen confer bioactivity to polyvinylidene fluoride</p> <p>Journal of materials science. Materials in medicine (2016; 27:)</p> <p>"Surface modification of PVDF using non-mammalian sources of collagen for enhancement of endothelial cell functionality."</p> <p>Author(s):Wang JK,Xiong GM,Luo B,Choo CC,Yuan S,Tan NS,Choong C</p> <p>PubMed Article URL:http://dx.doi.org/10.1007/s10856-015-5651-8</p>

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