

CD62P (P-Selectin) Monoclonal Antibody (AK-4), eBioscience™

Product Details

Size	25 µg
Species Reactivity	Human
Published Species	Mouse, Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	AK-4
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_467317

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	5 µg/ml	-
Flow Cytometry (Flow)	1 µg/test	1 Publication
ELISA (ELISA)	-	1 Publication
Neutralization (Neu)	Assay-Dependent	-
Functional Assay (FN)	Assay-Dependent	-

Product Specific Information

Description: The AK-4 monoclonal antibody reacts with human CD62P, a 140 kDa transmembrane glycoprotein also known as P-Selectin. Upon activation, CD62P is rapidly transported from its cytoplasmic stores in the Weibel-Palade bodies of endothelial cells or the alpha-granules of platelets to the surface. CD62P initiates the adhesive interaction between endothelial cells and neutrophils and monocytes during the inflammatory reaction and is also involved in the interaction of platelets with monocytes and neutrophils.

Applications Reported: The AK-4 antibody has been reported for use in flow cytometric analysis, and immunohistochemical staining of frozen tissue sections. AK-4 has also been reported in blocking adhesion of platelets in in vitro assays.

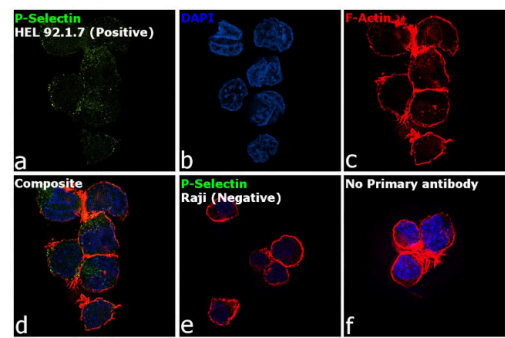
Applications Tested: This AK-4 antibody has been tested by flow cytometric analysis of resting and thrombin-activated human platelets. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells /test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

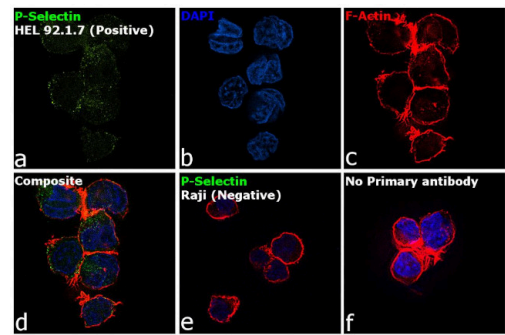
Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD62P (P-Selectin) Monoclonal Antibody (AK-4), eBioscience™



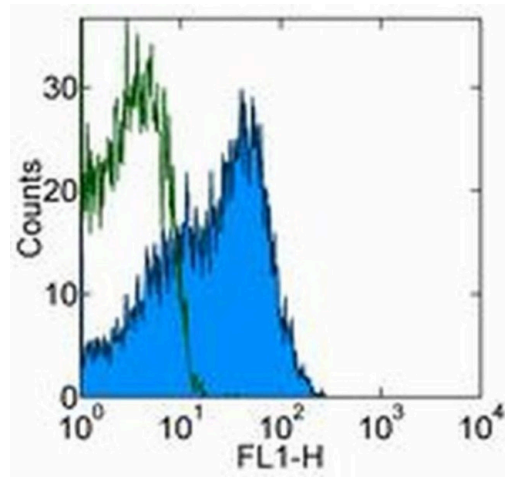
CD62P (P-Selectin) Antibody (14-0628-80)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cells lines tested owing to their inherent genetic constitution. Relative expression of P-Selectin in HEL 92.1.7 as compared to Raji which is reported to be low to negative for P-Selectin expression using Anti-P-Selectin Monoclonal Antibody (Product # 14-0628-80) in Immunofluorescence analysis. {RE}



CD62P (P-Selectin) Antibody (14-0628-80) in ICC/IF

Immunofluorescence analysis of P-Selectin was performed using HEL 92.1.7 and Raji cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with P-selectin Mouse Monoclonal Antibody (Product # 14-0628-80) at 5 µg/mL in 0.1% BSA and incubated overnight at 4 degree and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, Alexa Fluor® 488 (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the composite image showing membrane localization of P-Selectin in HEL 92.1.7 but not in Raji (Panel e). Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification..



CD62P (P-Selectin) Antibody (14-0628-80) in Flow

Staining of thrombin-activated human peripheral blood platelets with 0.5 µg of Mouse IgG1 kappa Isotype Control Purified (Product # 14-4714-82) (open histogram) or 0.5 µg of Anti-Human CD62P (P-Selectin) Purified (filled histogram) followed by Anti-Mouse IgG FITC (Product # 11-4011-85). Total viable cells were used for analysis.

Flow Cytometry (1)

Biophysical journal	Year 2008
Monitoring receptor-ligand interactions between surfaces by thermal fluctuations.	Species Human
"14-0628 was used in Flow cytometry/Cell sorting to develop and validate a method for monitoring 2D receptor-ligand interactions based on thermal fluctuations of a biomembrane force probe."	
Authors: Chen W,Evans EA,McEver RP,Zhu C	

ELISA (1)

Scientific reports	Year 2016
Soluble Siglec-5 associates to PSGL-1 and displays anti-inflammatory activity.	Species Mouse
"14-0628 was used in an ELISA assay to identify PSGL1 as a ligand for Siglec-5, and soluble Siglec-5 variants appear efficient in blocking PSGL1-mediated leukocyte rolling and the inflammatory response in general."	
Authors: Pepin M,Mezouar S,Pegon J,Muczynski V,Adam F,Bianchini EP,Bazaa A,Proulle V,Rupin A,Paysant J,Panicot-Dubois L,Christophe OD,Dubois C,Lenting PJ,Denis CV	

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.