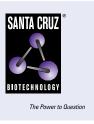
SANTA CRUZ BIOTECHNOLOGY, INC.

P-Selectin (1 E 3): sc-19672



BACKGROUND

Selectins, also designated CD62 antigens, comprise a family of carbohydratebinding proteins involved in mediating cellular interactions with leukocytes. L-Selectin (also designated LECAM-1 or CD62L) is expressed on the majority of B and naive T cells and on most monocytes, neutrophils and eosinophils. L-Selectin interacts with specific carbohydrates expressed by activated endothelial cells. P-Selectin (also designated GMP-140 or CD62P), expressed on activated platelets and endothelial cells, and E-Selectin (also designated ELMA-1 or CD62E), expressed on endothelial cells, exhibit overlapping ligand specificities. Both recognize sialyl-Le^x as a ligand and bind to specific carbohydrates on neutrophils and monocytes.

CHROMOSOMAL LOCATION

Genetic locus: SELP (human) mapping to 1q24.2.

SOURCE

P-Selectin (1 E 3) is a mouse monoclonal antibody raised against fixed thrombin-activated human platelets.

PRODUCT

Each vial contains 200 μg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

P-Selectin (1 E 3) is available conjugated to agarose (sc-19672 AC), 500 μg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-19672 HRP), 200 μg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-19672 PE), fluorescein (sc-19672 FITC), Alexa Fluor[®] 488 (sc-19672 AF488), Alexa Fluor[®] 546 (sc-19672 AF546), Alexa Fluor[®] 594 (sc-19672 AF594) or Alexa Fluor[®] 647 (sc-19672 AF647), 200 μg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-19672 AF680) or Alexa Fluor[®] 790 (sc-19672 AF790), 200 μg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

P-Selectin (1 E 3) is recommended for detection of P-Selectin of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 μ g per 1 x 10⁶ cells).

Suitable for use as control antibody for P-Selectin siRNA (h): sc-29421, P-Selectin shRNA Plasmid (h): sc-29421-SH and P-Selectin shRNA (h) Lentiviral Particles: sc-29421-V.

Molecular Weight of P-Selectin: 140 kDa.

Positive Controls: human platelet extract: sc-363773.

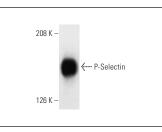
STORAGE

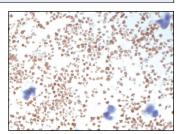
Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

DATA





P-Selectin (1 E 3): sc-19672. Western blot analysis of P-Selectin expression in human platelet whole cell lysate. P-Selectin (1 E 3): sc-19672. Immunoperoxidase staining of formalin-fixed human platelets and white blood cells showing membrane staining of platelets.

SELECT PRODUCT CITATIONS

- Waleh, N., et al. 2005. The role of monocyte-derived cells and inflammation in baboon ductus arteriosus remodeling. Pediatr. Res. 57: 254-262.
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- Sobhan, P.K., et al. 2012. Immortalized functional endothelial progenitor cell lines from umbilical cord blood for vascular tissue engineering. Tissue Eng. Part C Methods 18: 890-902.
- Schneider-Hohendorf, T., et al. 2014. VLA-4 blockade promotes differential routes into human CNS involving PSGL-1 rolling of T cells and MCAMadhesion of TH17 cells. J. Exp. Med. 211: 1833-1846.
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- Miteva, K.T., et al. 2019. Rab46 integrates Ca²⁺ and histamine signaling to regulate selective cargo release from Weibel-Palade bodies. J. Cell Biol. 218: 2232-2246.
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- Wang, Z., et al. 2023. Aβ1-42-containing platelet-derived extracellular vesicle is associated with cognitive decline in Parkinson's disease. Front. Aging Neurosci. 15: 1170663.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.