E-Selectin (CTB202): sc-5262



The Power to Question

BACKGROUND

Selectins, also designated CD62 antigens, comprise a family of carbohydrate-binding 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. E-Selectin is expressed by cytokine-stimulated endothelial cells, and is thought to be responsible for the accumulation of blood leukocytes at sites of inflammation by mediating the adhesion of cells to the vascular lining.

REFERENCES

- 1. Varki, A. 1994. Selectin ligands. Proc. Natl. Acad. Sci. USA 91: 7390-7397.
- Lasky, L.A. 1995. Selectin-carbohydrate interactions and the initiation of the inflammatory response. Annu. Rev. Biochem. 64: 113-139.

CHROMOSOMAL LOCATION

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

SOURCE

E-Selectin (CTB202) is a mouse monoclonal antibody raised against full length E-Selectin of human origin.

PRODUCT

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

E-Selectin (CTB202) is available conjugated to either phycoerythrin (sc-5262 PE) or fluorescein (sc-5262 FITC), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM.

APPLICATIONS

E-Selectin (CTB202) is recommended for detection of E-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)] and flow cytometry (1 μ g per 1 x 10⁶ cells).

Suitable for use as control antibody for E-Selectin siRNA (h): sc-29296, E-Selectin shRNA Plasmid (h): sc-29296-SH and E-Selectin shRNA (h) Lentiviral Particles: sc-29296-V.

Molecular Weight of E-Selectin: 115 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, Jurkat whole cell lysate: sc-2204 or Jurkat + PMA cell lysate: sc-24718.

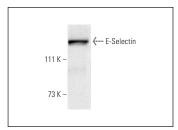
STORAGE

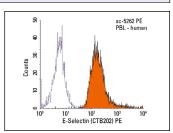
Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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

DATA





E-Selectin (CTB202): sc-5262. Western blot analysis of E-Selectin expression in HeLa whole cell lysate.

E-Selectin (CTB202) PE: sc-5262 PE. FCM analysis of human peripheral blood leukocytes. Black line histogram represents the isotype control, normal mouse $\lg G_{2a}$ -PE: sc-2867.

SELECT PRODUCT CITATIONS

- Zhang, J.Z., et al. 2003. L-Selectin and E-Selectin expressed on monocytes mediating *Ehrlichia chaffeensis* attachment onto host cells. FEMS Microbiol. Lett. 227: 303-309.
- 2. Munro, P., et al. 2004. Activation and proteasomal degradation of Rho GTPases by CNF1 elicit a controlled inflammatory response. J. Biol. Chem. 279: 35849-35857.
- Gong, R., et al. 2006. Hepatocyte growth factor suppresses acute renal inflammation by inhibition of endothelial E-Selectin. Kidney Int. 69: 1166-1174.
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- 6. Kang, Y.M., et al. 2018. Inhibitory effects of *Helianthus tuberosus* ethanol extract on *Dermatophagoides farina* body-induced atopic dermatitis mouse model and human keratinocytes. Nutrients 10: 1657.
- Soroush, F., et al. 2019. Neutrophil-endothelial interactions of murine cells is not a good predictor of their interactions in human cells. FASEB J. 34: 2691-2702.
- 8. McHowat, J., et al. 2020. 2-chlorofatty aldehyde elicits endothelial cell activation. Front. Physiol. 11: 460.
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See **E-Selectin (D-7): sc-137054** for E-Selectin antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor* 488, 546, 594, 647, 680 and 790.