SANTA CRUZ BIOTECHNOLOGY, INC.

E-Selectin (C-20): sc-6937

SANTA CRUZ BIOTECHNOLOGY

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.
2. Lasky, L.A. 1995. Selectin-carbohydrate interactions and the initiation of the inflammatory response. Annu. Rev. Biochem. 64: 113-139
3. Pavalko, R.M., et al. 1995. The cytoplasmic domain of L-Selectin interacts with cytoskeletal proteins via α-actinin: receptor positioning in microvilli does not require interaction with α-actinin. J. Cell Biol. 129: 1155-1164.
4. Tedder, T.F., et al. 1995. The selectins: vascular adhesion molecules. FASEB J. 10: 866-873.
5. Rosen, S.D. and Bertozzi, C.R. 1996. Two selectins converge on sulphate. Leukocyte adhesion. Curr. Biol. 6: 261-264.
6. McEver, R.P., et al. 1996. Leukocyte trafficking mediated by selectin-carbohydrate interactions. J. Biol. Chem. 270: 11025-11028.
7. Diacovo, T.G., et al. 1996. Platelet-mediated lymphocyte delivery to high endothelial venules. Science 273: 252-255.

CHROMOSOMAL LOCATION

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

SOURCE

E-Selectin (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of E-Selectin of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-6937 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

E-Selectin (C-20) 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 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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.

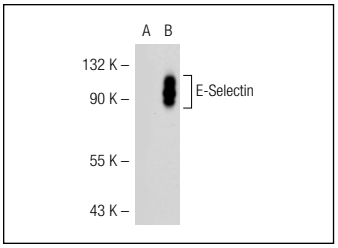
Molecular Weight of E-Selectin: 115 kDa.

Positive Controls: E-Selectin (h): 293T Lysate: sc-112627, HeLa whole cell lysate: sc-2200 or U-698-M whole cell lysate.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



E-Selectin (C-20): sc-6937. Western blot analysis of E-Selectin expression in non-transfected: sc-117752 (**A**) and human E-Selectin transfected: sc-112627 (**B**) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

1. Madhavan, M., et al. 2002. Down regulation of endothelial adhesion molecules in node positive breast cancer: possible failure of host defence mechanism. Pathol. Oncol. Res. 8: 125-128.

MONOS Satisfaction Guaranteed

Try **E-Selectin (D-7): sc-137054** or **E-Selectin (CTB202): sc-5262**, our highly recommended monoclonal alternatives to E-Selectin (C-20). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **E-Selectin (D-7): sc-137054**.