

# E-Selectin (A-10): sc-137203

## 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. Tedder, T.F., et al. 1995. The selectins: vascular adhesion molecules. *FASEB J.* 10: 866-873.
3. Lasky, L.A. 1995. Selectin-carbohydrate interactions and the initiation of the inflammatory response. *Annu. Rev. Biochem.* 64: 113-139.
4. McEver, R.P., et al. 1995. Leukocyte trafficking mediated by selectin-carbohydrate interactions. *J. Biol. Chem.* 270: 11025-11028.

## CHROMOSOMAL LOCATION

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

## SOURCE

E-Selectin (A-10) is a mouse monoclonal antibody raised against amino acids 311-610 mapping at the C-terminus of E-Selectin of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

E-Selectin (A-10) is recommended for detection of E-Selectin of human origin by Western Blotting (starting dilution 1:100, 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 Jurkat whole cell lysate: sc-2204.

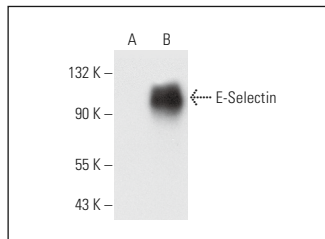
## RESEARCH USE

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

## STORAGE

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

## DATA



E-Selectin (A-10): sc-137203. 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. Chen, Y.H., et al. 2008. Angiostatin K1-3 induces E-Selectin via AP1 and Ets1: a mediator for anti-angiogenic action of K1-3. *J. Thromb. Haemost.* 6: 1953-1961.
2. Yosef, N. and Ubogu, E.E. 2012.  $\alpha$ M $\beta$ 2-Integrin-intercellular adhesion molecule-1 interactions drive the flow-dependent trafficking of Guillain-Barre syndrome patient derived mononuclear leukocytes at the blood-nerve barrier *in vitro*. *J. Cell. Physiol.* 227: 3857-3875.
3. Hamada, K., et al. 2014. Cell density impacts epigenetic regulation of cytokine-induced E-Selectin gene expression in vascular endothelium. *PLoS ONE* 9: e90502.
4. Ito, S., et al. 2016. Crucial role of the aryl hydrocarbon receptor (AhR) in indoxyl sulfate-induced vascular inflammation. *J. Atheroscler. Thromb.* 23: 960-975.
5. Šemeláková, M., et al. 2018. The potential of hypericin and hyperforin for antiadhesion therapy to prevent metastasis of parental and oxaliplatin-resistant human adenocarcinoma cells (HT-29). *Anticancer Drugs* 29: 983-994.
6. Amirinezhad Fard, E., et al. 2020. Effect of *Tribulus terrestris L.* on expression of ICAM-1, VCAM-1, E-Selectin and proteome profile of human endothelial cells *in-vitro*. *Iran. J. Immunol.* 17: 64-74.
7. Ahmad, I., et al. 2021. AICAR decreases acute lung injury by phosphorylating AMPK and upregulating heme oxygenase-1. *Eur. Respir. J.* 58: 2003694.



See **E-Selectin (D-7): sc-137054** for E-Selectin antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor<sup>®</sup> 488, 546, 594, 647, 680 and 790.