

# E-Selectin (2Q780): sc-71017

## 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.

## CHROMOSOMAL LOCATION

Genetic locus: SELE (human) mapping to 1q24.2; Sele (mouse) mapping to 1 H2.2.

## SOURCE

E-Selectin (2Q780) is a mouse monoclonal antibody raised against IL-1 $\beta$  activated human vascular endothelial cells expressing E-Selectin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG $_1$  kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## 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 (2Q780) is recommended for detection of E-Selectin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), flow cytometry (1  $\mu$ g per 1 x 10<sup>6</sup> cells) 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 siRNA (m): sc-35244, E-Selectin shRNA Plasmid (h): sc-29296-SH, E-Selectin shRNA Plasmid (m): sc-35244-SH, E-Selectin shRNA (h) Lentiviral Particles: sc-29296-V and E-Selectin shRNA (m) Lentiviral Particles: sc-35244-V.

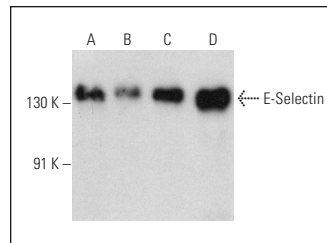
Molecular Weight of E-Selectin: 115 kDa.

Positive Controls: ZR-75-1 cell lysate: sc-2241, NCI-H1299 whole cell lysate: sc-364234 or HT-1080 whole cell lysate: sc-364183.

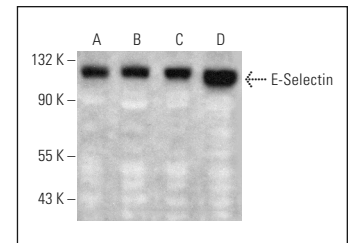
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgG $\kappa$  BP-FITC: sc-516140 or m-IgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

## DATA



E-Selectin (2Q780): sc-71017. Western blot analysis of E-Selectin expression in ZR-75-1 (A), NCI-H1299 (B), HT-1080 (C) and SW480 (D) whole cell lysates.



E-Selectin (2Q780): sc-71017. Western blot analysis of E-Selectin expression in ZR-75-1 (A), NCI-H1299 (B), HT-1080 (C) and SW480 (D) whole cell lysates.

## SELECT PRODUCT CITATIONS

- Dias, W.B., et al. 2008. Endothelial cell signalling induced by *trans*-sialidase from *Trypanosoma cruzi*. Cell. Microbiol. 10: 88-99.
- Pattillo, C.B., et al. 2009. Radiation-guided targeting of combretastatin encapsulated immunoliposomes to mammary tumors. Pharm. Res. 26: 1093-1100.
- Alekseeva, A., et al. 2015. Interactions of antitumour Sialyl Lewis X liposomes with vascular endothelial cells. Biochim. Biophys. Acta 1848: 1099-1110.
- Wang, F., et al. 2017. Regulation of human brain microvascular endothelial cell adhesion and barrier functions by memantine. J. Mol. Neurosci. 62: 123-129.
- Xu, H., et al. 2019. LKB1/p53/TIGAR/autophagy-dependent VEGF expression contributes to PM2.5-induced pulmonary inflammatory responses. Sci. Rep. 9: 16600.
- Jian, D., et al. 2020. METTL14 aggravates endothelial inflammation and atherosclerosis by increasing FOXO1 N6-methyladenosine modifications. Theranostics 10: 8939-8956.



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.