



20180406BB

Anti-Mouse E-Selectin (#9J12)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

Cat.-no.:	103-M129
Size:	100 µg
Lot. No.:	According to product label

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a rat immunized with cytokine stimulated-mouse endothelial membrane protein). IgG2 fraction of the culture supernatant was purified by Protein G affinity chromatography.

Target Background

Synonyms (Target):	Sele; Elam; CD62E; E-selectin
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E-Selectin (Endothelial Leukocyte Adhesion Molecule1, ELAM1, CD62E), a member of the Selectin family, is a 107-115 kDa cell surface glycoprotein. It is transiently expressed on vascular endothelial cells in response to IL 1 β and TNF α , and demonstrates peak expression at 4 hours, and decay at 24 hours, in response to activation. E-Selectin ligands, expressed on neutrophils, monocytes, and a subset of memory T cells, are sialylated, fucosylated molecules which bind to the lectin domain of E-Selectin. Immunocytochemical techniques have demonstrated the expression of E-Selectin on healthy and diseased tissue. The human and mouse E-Selectin proteins share 81% amino acid similarity. E-Selectin mediates the attachment of flowing leukocytes to the blood vessel wall during inflammation by binding to E-Selectin ligands on leukocytes. These interactions are labile and permit leukocytes to roll along the vascular endothelium in the direction of blood flow. This initial interaction is followed by a stronger interaction involving ICAM-1 and VCAM-1 that leads eventually to extravasation of the white blood cell through the blood vessel wall into the extracellular matrix tissue.

Database References Target

Protein RefSeq:	NP_035475.1
Uniprot ID:	Q00690
mRNA RefSeq:	NM_011345.2

Product Specifications

Host	Rat
Reactivity against	Mouse
Clonality	Monoclonal Antibody
Clone	(#9J12)
Isotype	IgG2
Purification	Protein G chromatography
Antigen	Cytokine stimulated mouse endothelial protein
Formulation	lyophilized
Reconstitution buffer	PBS (sterile)

Reconstitution: Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

Remarks: This antibody was selected for its ability to detect mouse E-Selectin protein.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

Applications

The antibody can be used within the following applications:

IHC (P), FC

Recommended usage:

IHC (paraffine): 1:100 - 1:400

Flow cytometry: 1:100 - 1:1000

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!



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Application/Handling

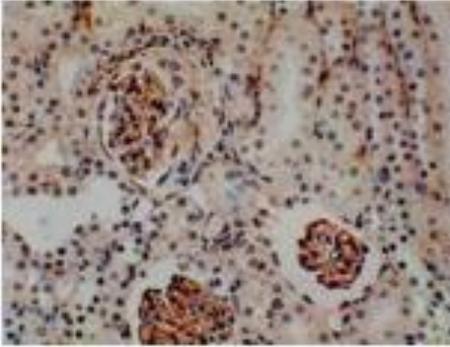


Fig. 1: The Bouin's solution fixed and paraffin embedded mouse kidney section from anti-GBM model was subjected to IHC with anti-mouse E-Selectin using 103-M129.

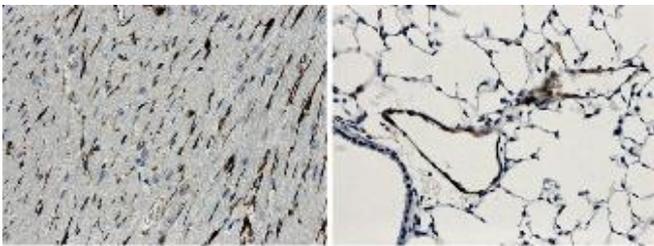


Fig. 2: 4% PFA fixed and paraffin embedded mouse Lung and Heart tissue section was subjected to IHC staining of mouse E-Selectin using 103-M129.