

Technical Data Sheet

Purified NA/LE Rat Anti-Mouse CD62E

Product Information

Material Number:	553748
Alternate Name:	E-selectin, ELAM-1
Size:	0.5 mg
Concentration:	1.0 mg/ml
Clone:	10E9.6
Immunogen:	Mouse brain capillary endothelioma bEnd.3 (TNF α -stimulated)
Isotype:	Rat (LEW) IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2 μ m sterile filtered. Endotoxin level is ≤ 0.01 EU/ μ g (≤ 0.001 ng/ μ g) of protein as determined by the LAL assay.

Description

The 10E9.6 antibody reacts with the 97-110 kDa cell surface glycoprotein E-selectin (CD62E), also known as endothelial-leukocyte adhesion molecule-1 (ELAM-1), which is expressed on endotoxin- or cytokine-stimulated mouse endothelial cells. A suspension of TNF α stimulated mouse brain capillary endothelioma cells, from the cell line bEnd.3, was used as the immunogen. The epitope recognized by mAb 10E9.6 has been mapped to the first and/or second complement regulatory protein repeat domains of E-selectin. The 10E9.6 antibody has been reported to block binding of a monocyte cell line to E-selectin in vitro and to block neutrophil migration in BALB/c, but not C57BL/6 mice. It has no effect on leukocyte rolling in TNF α -treated mouse venules or on in vitro adhesion of myeloid cells to E-selectin. Studies have demonstrated that Cutaneous Lymphocyte Antigen (CLA), recognized by mAb HECA-452 (Cat. no. 555946), may be a ligand for CD62E.

Preparation and Storage

Store undiluted at 4°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Application Notes

Application

Flow cytometry	Routinely Tested
Immunohistochemistry-frozen	Tested During Development
ELISA	Reported
Immunoprecipitation	Reported
Blocking	Reported

Suggested Companion Products

Catalog Number	Name	Size	Clone
553926	Purified NA/LE Rat IgG2a κ Isotype Control	0.5 mg	R35-95
553749	Purified Rat Anti-Mouse CD62E	0.5 mg	10E9.6

Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Borges E, Pendl G, Eytner R, Steegmaier M, Zollner O, Vestweber D. The binding of T cell-expressed P-selectin glycoprotein ligand-1 to E- and P-selectin is differentially regulated. *J Biol Chem.* 1997; 272(45):28786-28792. (Biology)

Bosse R, Vestweber D. Only simultaneous blocking of the L- and P-selectin completely inhibits neutrophil migration into mouse peritoneum. *Eur J Immunol.* 1994; 24(12):3019-3024. (Immunogen: Blocking, ELISA, Immunoprecipitation)

Eppihimer MJ, Wolitzky B, Anderson DC, Labow MA, Granger DN. Heterogeneity of expression of E- and P-selectins in vivo. *Circ Res.* 1996; 79(3):560-569. (Biology: Blocking)

Ley K, Bullard DC, Arbones ML, et al. Sequential contribution of L- and P-selectin to leukocyte rolling in vivo. *J Exp Med.* 1995; 181(2):669-675. (Biology)

Pendl GG, Robert C, Steinert M, et al. Immature mouse dendritic cells enter inflamed tissue, a process that requires E- and P-selectin, but not P-selectin glycoprotein ligand 1. *Blood.* 2002; 99(3):946-956. (Biology)

Ramos CL, Kunkel EJ, Lawrence MB, et al. Differential effect of E-selectin antibodies on neutrophil rolling and recruitment to inflammatory sites. *Blood.* 1997; 89(8):3009-3018. (Clone-specific: Blocking)

Weller A, Isenmann S, Vestweber D. Cloning of the mouse endothelial selectins. Expression of both E- and P-selectin is inducible by tumor necrosis factor alpha. *J Biol Chem.* 1992; 267(21):15176-15183. (Biology)

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