

Technical Data Sheet

PE Rat Anti-Mouse CD62E

Product Information

Material Number:	553751
Alternate Name:	E-selectin, ELAM-1
Size:	0.2 mg
Concentration:	0.2 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:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

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

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

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
553930	PE Rat IgG2a, κ Isotype Control	0.1 mg	R35-95

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

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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. (Immunogen: 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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