

Datasheet for ABIN335383

anti-Selectin E/CD62e antibody



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Overview

Quantity:	0.1 mg
Target:	Selectin E/CD62e (SELE)
Reactivity:	Human, Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This Selectin E/CD62e antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunoprecipitation (IP), Functional Studies (Func)

Product Details

Immunogen:	UZ4 is a rat monoclonal IgM antibody derived by fusion of SP2/0 mouse myeloma cells with spleen cells from a Lewis rat immunized with LPS-activated mIEND1 cells expressing E-selectin at their cell surface.
Clone:	UZ4
Isotype:	IgM
Specificity:	UZ4 recognizes the minimal amino acid consensus sequence CXKKKL present in the lectin domain of both murine and human E-selectin. UZ4 is a functional antibody in that it inhibits leukocyte adhesion to both murine and human activated endothelial cells. For in vivo application in mice 20µg of purified Ig per injection is recommended.
Purification:	Purified

Target Details

Target:	Selectin E/CD62e (SELE)
Alternative Name:	E-selectin (SELE Products)
Background:	<p>BACKGROUND Leukocytes adhere to the blood vessel endothelium during extravasation in postcapillary venules of lymph nodes. In addition, leukocyte adhesion occurs in the capillaries and small venules at any site in the body after onset of inflammation. This response is immediate and involves a cascade of adhesion receptors. At the endothelial surface members of the selectin and immunoglobulin superfamilies participate in this cascade. Selectins are C-type cell surface lectins that play a role in leukocyte adhesion to the blood vessel wall endothelium. E-selectin (CD62E) is an endothelial cell specific selectin that is expressed only after activation with proinflammatory cytokines. In vitro experiments have shown that IL-1, TNF α and bacterial wall components like lipopolysaccharides induce the transcription of E-selectin in a NFκB dependent signalling cascade. E-selectin has been associated with blood vessel endothelium in diverse inflammatory situations.</p>
Pathways:	Thromboxane A2 Receptor Signaling

Application Details

Application Notes:	UZ4 is also suitable for immunoblotting, ELISA, immunoprecipitation and flow cytometry (dilution 1:500). It is not optimal for immunohistochemistry; to analyze mouse E-selectin protein in frozen sections, please refer to the anti Eselectin monoclonal antibodies UZ5, UZ6, and UZ7.
Restrictions:	For Research Use only

Handling

Concentration:	1mg/ml
Buffer:	Purified rat monoclonal antibody at a concentration of 1mg/ml in PBS without azide!
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C

Publications

Product cited in:	Kneilling, Mailhammer, Hültner, Schönberger, Fuchs, Schaller, Bukala, Massberg, Sander, Braumüller, Eichner, Maier, Hallmann, Pichler, Haubner, Gawaz, Pfeffer, Biedermann, Röcken: "
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Direct crosstalk between mast cell-TNF and TNFR1-expressing endothelia mediates local tissue inflammation." in: **Blood**, Vol. 114, Issue 8, pp. 1696-706, (2009) ([PubMed](#)).

Hammel, Weitz-Schmidt, Krause, Moll, Vestweber, Zerwes, Hallmann: "Species-specific and conserved epitopes on mouse and human E-selectin important for leukocyte adhesion." in: **Experimental cell research**, Vol. 269, Issue 2, pp. 266-74, (2001) ([PubMed](#)).

Wolf, Hallmann, Sass, Sixt, Küsters, Fregien, Trautwein, Tiegs: "TNF-alpha-induced expression of adhesion molecules in the liver is under the control of TNFR1--relevance for concanavalin A-induced hepatitis." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 166, Issue 2, pp. 1300-7, (2001) ([PubMed](#)).

Sunderkötter, Seeliger, Schönlau, Roth, Hallmann, Luger, Sorg, Kolde: "Different pathways leading to cutaneous leukocytoclastic vasculitis in mice." in: **Experimental dermatology**, Vol. 10, Issue 6, pp. 391-404, (2001) ([PubMed](#)).

Alferink, Tafuri, Vestweber, Hallmann, Hämmerling, Arnold: "Control of neonatal tolerance to tissue antigens by peripheral T cell trafficking." in: **Science (New York, N.Y.)**, Vol. 282, Issue 5392, pp. 1338-41, (1998) ([PubMed](#)).

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