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Rat anti E-selectin / CD62E

Catalogue number: **MUB0504P**

Clone	UZ4
Isotype	IgM
Product Type	Primary Antibodies
Units	0.1 mg
Host	Rat
Species reactivity	Human Mouse
Application	Flow cytometry Immunoblotting Immunofluorescence Immunoprecipitation

Distributors

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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 NF κ B dependent signalling cascade. E-selectin has been associated with blood vessel endothelium in diverse inflammatory situations.

Source

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.

Product

Each vial contains 100ul 1 mg/ml purified monoclonal antibody in PBS containing 0,09% sodium azide.

Applications

UZ4 is suitable for immunoblotting, ELISA, immunoprecipitation

and flow cytometry (dilution 1:500). To analyze E-selectin protein in frozen sections we refer to the anti E-selectin monoclonal antibodies UZ5, UZ6, and UZ7. For a functional UZ4 antibody that inhibits leucocyte adhesion to murine and Human activated endothelial cells refer to the E-selectin antibody for in vivo use which does not contain azide.

Specificity

UZ4 recognizes the minimal amino acid consensus sequence CXKKKL present in the lectin domain of both murine and Human E-selectin.

Storage

Store at 4°C, or in small aliquots at -20°C.

References

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Caution

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures

involving humans or animals. This product contains sodium azide. To prevent formation of toxic vapors, do not mix with strong acidic solutions. To prevent formation of potentially explosive metallic azides in metal plumbing, always wash into drain with copious quantities of water. This datasheet is as accurate as reasonably achievable, but Nordic-MUbio accepts no liability for any inaccuracies or omissions in this information.