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AM32176PU-N Monoclonal Antibody to Endothelial Cell Internalizing Surface Antigen - Purified

Quantity:	1 ml
Concentration:	0,2 mg/ml (after reconstituion)
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	GES-HB
Format:	**State:** Lyophilized purified Ascites **Purification:** PEG6000 precipitation + DEAE-cellulose chromatography, gradient elution. **Reconstitution:** Reconstitute with 1 ml sterile water and add preservative if preferred.
Applications:	Flow Cytometry. Immunohistochemistry on frozen sections: 1/20; Fixation with 1% paraformaldehyde for 5 minutes is recommended for fluorescence staining of endothelial cells. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The antibody reacts with a protease sensitive surface antigen that is present on human endothelial cells of various origins: microvasculature, aorta and arterial and venous umbilical vessels. Crossreactions with blood cells or plasma proteins were not found. The antibody-antigen complex is rapidly internalized by metabolically active endothelial cells (at 37°C within 15-30 min.). Also liposomes coated with the antibody are rapidly internalized by endothelial cells. The internalization does not affect the growth and morphological appearance of endothelial cells in culture. The internalization of the antibody is not dependent on the Fc part of the molecule. Specific technical details will dependent on the methods to be used.
Species Reactivity:	**Tested:** Human.
Caution:	Store the antibody undiluted at 2-8°C. Shelf life: one year from despatch.
General Readings:	1. Trubetskaya OV, Trubetskoy VS, Domogatsky SP, Rudin AV, Popov NV, Danilov SM, et al. Monoclonal antibody to human endothelial cell surface internalization and liposome delivery in cell culture. FEBS Lett. 1988 Feb 8;228(1):131-4. PubMed PMID: 3342871. 2. Muzykantov VR, Trubetskaya OV, Puchnina EA, Sakharov DV, Domogatsky SP. Cytotoxicity of glucose oxidase conjugated with antibodies to target cells: killing efficiency depends on the conjugate internalization. Biochim Biophys Acta. 1990 Jun 12;1053(1):27-31. PubMed PMID: 2364115.