

Endothelial internalizing surface antigen, clone GES-HB Monoclonal Antibody

Catalog No.: MON 6009

Quantity: 1 ml

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 depend on the methods to be used.

Immunoglobulin type

Murine IgG₁

Use

The antibody can be used for targeted transfection of endothelial cells as a model for in vitro studies on genetic modulation of vascular cells (1). Furthermore the antibody coupled to specific dyes can be used to label endothelial cells in various assay systems. Indirect immunofluorescence of fluorescence microscopy. The antibody can also be used for immunohistology.

Instructions for use

For immunohistochemistry dilute the antibody approximately 1:20. Fixation with 1% paraformaldehyde for 5 minutes is recommended for fluorescence staining of endothelial cells. For further instructions, see A.

Presentation

1 ml lyophilized purified ascites with approximately 0.2 mg antibody/ml.
Reconstitute with 1 ml sterile water and add preservative if preferred.

Method of purification

PEG6000 precipitation + DEAE-cellulose chromatography, gradient elution.

Literature

- Trubetskaya, O.V., et al., 1988, FEBS Lett 228, 131-134.
- Muzykantov, V.R., et al., 1990, Biochim. Biophys. Acta 1053, 27-31.

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