



Monoclonal Anti-human Endothelin-3 Antibody

ORDERING INFORMATION

Catalog Number: MAB5579

Clone: 3B6

Lot Number: CCIU01

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS
with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human Endothelin-3

Immunogen: synthetic human Endothelin-3

Ig class: mouse IgG₁

Recommended Application:
Immunocytochemistry

Background

Endothelin-1, -2, and -3 are encoded by three separate genes as prepropeptides that are cleaved to yield the secreted and inactive big endothelins. Big Endothelin-3 is further cleaved by Kell blood group antigen endopeptidases to generate the 21 amino acid bioactive mature peptide. It interacts primarily with the 7TM receptor EDNRB to induce a variety of effects including bronchoconstriction, arteriolar vasoconstriction, gall bladder contraction, insulin and norepinephrine release, and the maintenance and development of melanocytes and neural crest progenitors. Mature human Endothelin-3 shares 100% aa sequence identity with mouse and rat Endothelin-3.

Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with synthetic human Endothelin-3 (rhEndothelin-3; Accession # P14138). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 0.2 mL of PBS is used, the antibody concentration will be 500 µg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody detects rhEndothelin-3 in immunohistochemistry.

Application

Immunocytochemistry - This antibody was used at a concentration of 10 µg/mL to detect Endothelin-3 in LnCap cells. Cells were fixed with PBS containing 4% paraformaldehyde and blocked with PBS containing 10% normal donkey serum, 0.1% Triton® X-100, and 1% BSA. After blocking, cells were incubated with diluted primary antibody followed by NL557-coupled anti-mouse IgG (Catalog # NL007) in the dark. Between each step, cells were washed with PBS containing BSA.

Optimal dilutions should be determined by each laboratory for each application.

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