

Product Information

Monoclonal Anti-Endothelin-1, clone TR.ET.48.5

produced in mouse, purified antibody

Catalog Number **E166**

Product Description

Monoclonal Anti-Endothelin-1 (IgG1 isotype) is produced in mice. Purified endothelin-1 (ET-1) conjugated to KLH was used as immunogen. The TR.ET.48.5 hybridoma is produced by the fusion of SP2/0 myeloma cells and spleen cells from a BALB/c x A/JF1 mouse.

Monoclonal Anti-Endothelin-1 detects ET-1 in human, rat and sheep tissues. The antibody may be used to localize and detect ET-1 by RIA, Western blotting, immunocytochemistry and immunohistochemistry. The antibody shows little cross-reactivity with related peptides and does not show cross-reactivity to non-related peptides. The antibody may be used with formalin-fixed, paraffin-embedded tissue.

Endothelins (ET) show potent constrictor activity in vascular and non-vascular smooth muscle. This family of 21-amino acid peptides exists in at least three isoforms - ET-1, ET-2, and ET-3, and is produced in endothelial and epithelial cells. ET's can mediate biological effects in cells and tissues, and have been shown to bind to an ET receptor in the lung, kidney, heart, and liver. This monoclonal antibody binds specifically to ET-1, and shows little cross-reactivity to related peptides and no known cross-reactivity to non-related peptides.

Reagent

Supplied in phosphate buffered saline (PBS) with 0.05% sodium azide.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Store at -20 °C. For continuous use, the product may be stored at 2-8 °C for up to one month. For extended storage, freeze in working aliquots at -20 °C. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

Product Profile

Immunoblotting and Immunocytochemistry: the working antibody dilution to use is assay dependent and should be determined by the user.

Radioimmunoassay (RIA): a working antibody dilution of 1:25,000 is recommended.

Immunohistochemistry: a working antibody dilution of 1:250 is recommended using formalin-fixed, paraffin-embedded tissue sections.

Note: In order to obtain the best results using various techniques and preparations, we recommend determining the optimal working dilutions by titration.

Related Products

ET-1, Catalog No. E7764; ET-2, Catalog No. E9012;
ET-3, Catalog No. E9137;
Sarafotoxin 6c, Catalog No. S6545
β-Endorphin, Catalog No. E6261
Neuropeptide Y, Catalog No. N5017
Somatostatin, Catalog No. S9129
Secretin, Catalog No. S7147

References

1. Traish, A.M., et al., "Monoclonal antibodies to human endothelin-1: characterization and utilization in radioimmunoassay and immunocytochemistry." *Hybridoma*, **11**, 147-163 (1992).

2. Saenz de Tejada, I., et al., "Endothelin: localization, synthesis, activity, and receptor types in human penile corpus cavernosum." *Am. J. Physiol.*, **261**, H1078-H1085 (1991).
3. Nelson, J.B., et al., "Endothelin-1 production and decreased endothelin B receptor expression in advanced prostate cancer." *Cancer Res.*, **56**, 663-668 (1996).

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