

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Endothelin-1 in direct ELISA.
Source	Monoclonal Mouse IgG _{2B} Clone # 1065402
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Synthetic peptide containing EDN1. Accession # P05305
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.

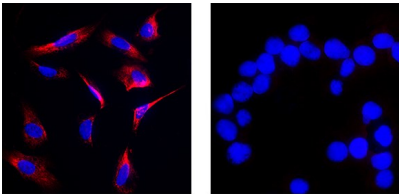
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Immunocytochemistry	8-25 µg/mL	Immersion fixed HUVEC human umbilical vein endothelial cells (positive) and Jurkat human acute T cell leukemia cells (negative)

DATA

Immunocytochemistry



HUVEC (Positive) cells Jurkat (Negative) cells

Detection of Endothelin-1 in Huvec (positive) and Jurkat (negative) cells. Endothelin-1 was detected in immersion fixed HUVEC human umbilical vein endothelial cells (positive) and absent in Jurkat human acute T cell leukemia cells (negative) using Mouse Anti-Human Endothelin-1 Monoclonal Antibody (Catalog # MAB34402) at 8 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cell cytoplasm. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Endothelin-1, -2, and -3 are encoded by three separate genes as prepropeptides that are cleaved to yield inactive big endothelins. Big Endothelins are further cleaved to generate the 21 amino acid bioactive mature peptides. Endothelin-1 has potent vasoconstricting and angiogenic activity that is mediated through the 7TM receptors, ET-A and ET-B. Endothelin-1, -2, and -3 share identical amino acid sequences at their C-termini (residues 15-21).