RD SYSTEMS a biotechne brand

Human Endothelin-1 C-Terminus Antibody

Monoclonal Rat IgG_{2B} Clone # 3G10 Catalog Number: MAB3440

DESCRIPTION

DESCRIPTION			
Species Reactivity	Human		
Specificity Detects human Endothelin-1 C-Terminus. Recognizes the C-terminal region of mature Endothelin-1, -2, and -3 (amino acid resic			
Source	Monoclonal Rat IgG _{2B} Clone # 3G10		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Human Endothelin-1		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

APPLICATIONS

DATA

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	See Below
ELISA	•	s as an ELISA capture antibody when paired with Mouse Anti-Human Endothelin-1 C- Antibody (Catalog # MAB34401).

This product is intended for assay development on various assay platforms requiring antibody pairs. We recommend the Endothelin Pan Specific DuoSet ELISA Kit (Catalog # DY1160) for convenient development of a sandwich ELISA or the Endothelin-1 Quantikine ELISA Kit (Catalog # DET100) for a complete optimized ELISA.

DATA		
Immunocytocher	Endothelin-1 in HUVEC Human Cells. Endothelin-1 was detected in immersion fixed HUVEC human umbilical vein endothelial cells using Rat Anti-Human Endothelin-1 C- Terminus Monoclonal Antibody (Catalog # MAB3440) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL013) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Cells on Coverslips.	ELISA
PREPARATION AND Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
	5	
Shipping	The product is shipped at ambient temperature. Upon rece *Small pack size (-SP) is shipped with polar packs. Upon	

Human Endothelin-1 ELISA Standard Curve. Recombinant Human Endothelin-1 protein was serially diluted 2-fold and captured by Rat Anti-Human Endothelin-1 C-Terminus Monoclonal Antibody (Catalog # MAB3440) coated on a Clear Polystyrene Microplate (Catalog # DY990). Mouse Anti-Human Endothelin-1 C-Terminus Monoclonal Antibody (Catalog # MAB34401) was biotinylated and incubated with the protein captured on the plate. Detection of the standard curve was achieved by incubating Streptavidin-HRP (Catalog # DY998) followed by Substrate Solution (Catalog # DY999) and stopping the enzymatic reaction with Stop Solution (Catalog # DY994).

PREPARATION AND S	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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C		
Stability & Storage	 Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 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 prepropolypeptides 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).

Rev. 9/17/2019 Page 1 of 1

biotechne

Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956 USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373 Europe | Middle East | Africa TEL +44 (0)1235 529449