



BMA BIOMEDICALS



Peninsula Laboratories

Rabbit anti Big Endothelin-1

Big Endothelin-1 (Big ET), is a 38-amino-acid peptide and biological precursor of the potent vasoconstrictor Endothelin-1. It is cleaved to yield endothelin-1 and the C-terminal fragment (22-38) via the activity of a membrane-bound metalloproteinase called endothelin-converting enzyme (ECE). Endothelin is produced by several cell types including vascular endothelial cells, Mesangial cells and kidney cells. Big Endothelin-1 can be hydrolyzed by chymase to generate endothelin 1 (1-21) in vitro.

This antibody was generated by immunization of rabbits with Big Endothelin-1 coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Catalog Number:	T-4575 (Lot 033432)
Clonality:	Polyclonal
Host species:	Rabbit IgG
Reactivity:	Human
Quantity:	400µg
Format:	Protein A affinity purified from antiserum, lyophilized. This stock solution contains 2mg/ml IgG, phosphate buffer saline pH 7.4 (PBS), and 0.02% (w/v) Thimerosal as a preservative. Reconstitute by adding 0.2ml of distilled water.
Stability and Storage:	Original vial: 1 year at 4° - 8°C from date of purchase. Stock solution and aliquots thereof: 1 year at -20°C. Avoid freeze-thaw cycles.
Immunogen:	Synthetic peptide H-Cys-Ser-Cys-Ser-Ser-Leu-Met-Asp-Lys-Glu-Cys-Val-Tyr-Phe-Cys-His-Leu-Asp-Ile-Ile-Trp-Val-Asn-Thr-Pro-Glu-His-Val-Val-Pro-Tyr-Gly-Leu-Gly-Ser-Pro-Arg-Ser-OH (Disulfide bridge: 1 - 15 and 3 - 11) coupled to carrier protein.
Protein database:	human-P05305

Cross-Reactivity:

PEPTIDE	%
Big-Endothelin-1 (human)	100
Big-Endothelin-1 fragment (22-38) (human)	100

Cross-Reactivity:

PEPTIDE	%
Big Endothelin-1 (rat)	7
Big-Endothelin-1 fragment (22-39) (porcine)	2
Big-Endothelin-1 (porcine)	1
Endothelin-1 (human, bovine, dog, porcine, mouse, rat)	<0.001
Endothelin-2 (human, dog)	<0.001
Endothelin-3 (human, mouse, rabbit, rat)	0
BNP-32 (human)	0
Sarafotoxin B	0

Applications:

Tested in ELISA against Big Endothelin-1 and in immunohistochemistry (IHC). Other applications like FACS and Western blot may work as well.

Approximate working dilution for IHC:

Paraffin sections: (1:800); pretreatment with Proteinase K for antigen retrieval is recommended.

Optimal dilutions should be determined by the end user.

Please see www.bma.ch for protocols and general information

Related Products:

T-4048: anti Endothelin-1, diluted antiserum, host: rabbit
T-4049: anti Endothelin-1, purified IgG
T-5011: anti Endothelin-1, neat antiserum, host: guinea pig
T-5010: anti Endothelin-1, diluted antiserum, host: guinea pig
S-1156: ELISA, extraction-free for serum and plasma samples
T-4735: anti Big Endothelin-1, diluted antiserum (rt)
T-4574: anti Big Endothelin-1, diluted antiserum (hu)
T-4572: anti Big Endothelin-1, neat antiserum (rt)
T-4573: anti Big Endothelin-1, neat antiserum (hu)
T-4570: anti Big Endothelin-1 (22-38), diluted antiserum (hu)
T-4571: anti Big Endothelin-1(22-38), purified IgG (hu)
T-4569: anti Big Endothelin-1(22-38), neat antiserum (hu)

This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Not for diagnostic or therapeutic applications.