



BMA BIOMEDICALS



Peninsula Laboratories

Guinea pig anti Endothelin-1

Endothelin (ET-1) is a 21 amino acid peptide, also known as preproendothelin-1 (PPET1), that is produced by the vascular endothelium from a 39 amino acid precursor, big ET-1, through the actions of an endothelin converting enzyme (ECE) found on the endothelial cell membrane. ET-1 is involved in regulation of cardiovascular functions where it has been implicated in the pathogenesis of hypertension, coronary vasospasm, and heart failure. It is also known to cause fibrosis of the vascular cells as well as to stimulate production of reactive oxygen species.

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

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Catalog Number:	T-5010 (Lot 030313-2)
Clonality:	Polyclonal
Host species:	Guinea pig
Reactivity:	Human, mouse, rat, porcine, bovine
Quantity:	1.0 ml
Format:	Diluted antiserum, lyophilized. This stock solution contains 0.1M sodium phosphate buffer (pH 7.4), 0.05M NaCl, 0.1% BSA, 0.01% NaN ₃ , and 0.1% Triton X-100. Reconstitute by adding 1.0 ml 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-OH, (Disulfide bonds between Cys1 and Cys15/Cys3 and Cys11) coupled to carrier protein.
Protein database:	<u>human-P05305</u> , <u>bovine-P17322</u> , <u>dog-P13206</u> , <u>mouse-P22387</u> , <u>porcine-P09558</u> , <u>rat-P22388</u>

Cross-Reactivity:

PEPTIDE	%
Endothelin-1 (human, rat, porcine, canine, bovine, mouse)	100
Endothelin-2 (human, canine)	100
Endothelin-3 (human, rat, porcine, Rabbit)	0.04
Big Endothelin-1 (human)	100
Big Endothelin-1 (porcine)	100
Big Endothelin-1 (22-38) (human)	0
Sarafotoxin B	2
α -ANP 1-28 (human, canine)	0
BNP-32 (human)	0
Angiotensin II	0
[Arg ⁸]-Vasopressin	0

Applications:

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

Optimal dilutions should be determined by the end user

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

Related Products:

T-4048: Rabbit anti Endothelin-1, diluted antiserum

T-4049: Rabbit anti Endothelin-1, purified IgG

T-4050: Rabbit anti Endothelin-1, neat antiserum

S-1156: ELISA, extraction-free for serum and plasma samples

T-5011: Guinea pig anti Endothelin-1, neat antiserum

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