



BMA BIOMEDICALS



Peninsula Laboratories

T-4048

Rabbit anti Endothelin-1 (human, bovine, dog, mouse, porcine, rat) [UniProt: P05305, P17322, P13206, P22387, P09558, P22388]

Endothelin-1 is a potent vasoconstrictor produced by vascular endothelial cells. It plays an important role in regulation of cardiovascular functions. The binding of Endothelin-1 to its G-protein coupled receptor triggers a signal transduction cascade leading to activation of the protein kinase C (PKC). PKC inhibitor potentially reverses the up-regulation of Endothelin-1. The enhanced Endothelin-1 expression associated with the activation of PKC occurs in early diabetes.

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

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Lot number:	A18PO2118
Host species:	Rabbit IgG
Quantity:	50ml
Format:	This polyclonal antibody is supplied as a lyophilized powder. The powder should be rehydrated with 50ml of RIA buffer. Upon reconstitution to 50ml total volume, the 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. Store at 4° - 8°C. This should ensure antibody stability for approximately one month.
Stability:	Original vial: at least one year at 4° - 8°C from date of delivery. Minimize repeated thawing and freezing of the antiserum by freezing aliquots at -20°C or below.
Applications:	This antibody has been tested and validated in ELISA against Endothelin-1 and in immunohistochemistry (IHC). Other applications like FACS or 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.
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.

Cross-Reactivity:

PEPTIDE	%
Endothelin-1 (human, rat, porcine, canine, bovine, mouse)	100
Endothelin-2 (human, canine)	7
Endothelin-3 (human, rat, porcine, rabbit)	7
Big Endothelin-1 (human)	17
Big Endothelin-1 (porcine)	35
Big Endothelin-1 (22-38) (human)	0
Vasoactive Intestinal Contractor (VIC) (mouse)	<0.01
Big Endothelin-1 (rat)	19
α -ANP 1-28 (human, canine)	0
BNP 26 (porcine)	0
Angiotensin I	0
Angiotensin II	0
Angiotensin III	0
[Arg8]-Vasopressin	0
ACTH (1-39) (human)	0
VIP (human, bovine, porcine, rat)	0
Sarafotoxin B	0

Related Products: T-4050: anti Endothelin 1 neat antiserum
 S-1171: ELISA high sensitivity for extracted samples
 S-1157: ELISA extraction-free for samples
 T-4049: anti Endothelin 1 purified IgG
 T-5010: Guinea pig anti Endothelin 1 diluted antiserum

This product contains ProClin 150 as a preservative and is intended for laboratory use and research purposes only. Purchase of this product does not include authorization to use it in diagnostic or therapeutic applications.

T-4048

diluted antiserum

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