

Endothelin 1 Rabbit pAb

Catalog # AP96625

Product Information

Application	WB
Primary Accession	P22387
Other Accession	P22387
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	22809
Physical State	Liquid
Immunogen	Recombinant mouse Endothelin-1 protein
Epitope Specificity	26-202/202
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the endothelin/sarafotoxin family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Endothelins (ET) show potent constrictor activity in vascular and non-vascular smooth muscle. This family of 21-amino acid peptides exists in at least three isoforms - ET-1, ET-2, and ET-3, and is produced in endothelial and epithelial cells. ET's can mediate biological effects in cells and tissues, and have been shown to bind to an ET receptor in the lung, kidney, heart, and liver. Endothelin 1 is expressed in lung, placental stem villi vessels and in cultured placental vascular smooth muscle cells. Molecular weight: 2491.9 Molecular formula: C109H159N25O32S5 CAS: 117399-94-7 MDL: MFCD00133305 Reconstitution: 1mM (1mg/0.4013mL)

Additional Information

Gene ID	13614
Other Names	ARCND3; ET1; HDLCQ7; PPET1; QME; ET-1; preproET; EDN1_HUMAN; EDN1; Preproendothelin-1 (PPET1); EDN1_MOUSE; EDN1_RAT; endothelin 1
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	Edn1
Function	Endothelins are endothelium-derived vasoconstrictor peptides (By similarity). Probable ligand for G protein-coupled receptors EDNRA and EDNRB which activates PTK2B, BCAR1, BCAR3 and, GTPases RAP1 and RHOA cascade in glomerular mesangial cells (By similarity). Also binds the DEAR/FBXW7-AS1 receptor (PubMed: 16293765). Promotes mesenteric arterial wall remodeling via activation of ROCK signaling and subsequent colocalization of NFATC3 with F-actin filaments (PubMed: 20495147 , PubMed: 21525433). NFATC3 then translocates to the nucleus where it subsequently promotes the transcription of the smooth muscle hypertrophy and differentiation marker ACTA2 (PubMed: 20495147).
Cellular Location	Secreted.
Tissue Location	Highest expression in the adult is in lung. Lower levels found in heart, kidney, brain and intestine. In the embryo, expressed in outer and inner pharyngeal arch surfaces. Also expressed in endothelium of dorsal aorta and arch arteries, and in epithelium of pharyngeal pouches.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.