



# ECE1 Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-07021
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat;Mouse
<b>Applications</b>	WB;ELISA
<b>Gene Name</b>	ECE1
<b>Protein Name</b>	Endothelin-converting enzyme 1 (ECE-1) (EC 3.4.24.71)
<b>Immunogen</b>	Synthesized peptide derived from part region of human protein
<b>Specificity</b>	ECE1 Polyclonal Antibody detects endogenous levels of protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000 ELISA 1:5000-20000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	
<b>Observed Band</b>	84kD
<b>Cell Pathway</b>	Cell membrane; Single-pass type II membrane protein.
<b>Tissue Specificity</b>	All isoforms are expressed in umbilical vein endothelial cells, polynuclear neutrophils, fibroblasts, atrium cardiomyocytes and ventricles. Isoforms A, B and C are also expressed in placenta, lung, heart, adrenal gland and phaeochromocytoma; isoforms A and C in liver, testis and small intestine; isoform B, C and D in endothelial cells and umbilical vein smooth muscle cells; isoforms C and D in saphenous vein cells, and isoform C in kidney.
<b>Function</b>	catalytic activity:Hydrolysis of the 21-Trp- -Val-22 bond in big endothelin to form endothelin 1.,cofactor:Binds 1 zinc ion per subunit.,disease:Defects in ECE1 are a cause of Hirschsprung disease, cardiac defects and autonomic dysfunction [MIM:600423]. It is a form of Hirschsprung disease [MIM:142623] with skip-lesions defects, craniofacial abnormalities and other dysmorphic features, and autonomic dysfunction.,enzyme regulation:Inhibited by phosphoramidon.,function:Converts big endothelin-1 to endothelin-1.,similarity:Belongs to the peptidase M13 family.,subunit:Homodimer; disulfide-linked.,tissue specificity:All isoforms are expressed in umbilical vein endothelial cells, polynuclear neutrophils, fibroblasts, atrium cardiomyocytes and ventricles. Isoforms A, B and C are also expressed in placenta, lung, heart, adrenal gland and phaeochromocytoma; isoforms A and C in liver, testis and s



**Background**

The protein encoded by this gene is involved in proteolytic processing of endothelin precursors to biologically active peptides. Mutations in this gene are associated with Hirschsprung disease, cardiac defects and autonomic dysfunction. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.[provided by RefSeq, Sep 2009],

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**

