ECE1 Monoclonal Antibody

Catalog No	BYmab-07021
Isotype	IgG
Reactivity	Human;Rat;Mouse
Applications	WB
Gene Name	ECE1
Protein Name	Endothelin-converting enzyme 1 (ECE-1) (EC 3.4.24.71)
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	ECE1 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	84kD
Cell Pathway	Cell membrane; Single-pass type II membrane protein.
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 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.
Function	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

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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.

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