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[Marker Primary Antibody]

Rabbit Anti-ECE1/AF594 Conjugated antibody

Catalog Number: SL1190R-AF594

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-ECE1/AF594
Immunogen:	KLH conjugated synthetic peptide derived from human ECE1 C-terminus
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse,Dog,Pig,Cow,Rabbit,GuineaPig)
Background:	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]. **Function:** Converts big endothelin-1 to endothelin-1. **Subunit:** Homodimer; disulfide-linked. **Subcellular Location:** 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

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

	in kidney. DISEASE: Defects in ECE1 are a cause of Hirschsprung disease cardiac defects and autonomic dysfunction (HSCRCDAD) [MIM:613870]. It is a form of Hirschsprung disease with skip-lesions defects, craniofacial abnormalities and other dysmorphic features, and autonomic dysfunction. **Similarity:** Belongs to the peptidase M13 family. **Database links:** **Entrez Gene:** 281133 Cow **Entrez Gene:** 1889 Human **Entrez Gene:** 230857 Mouse **Entrez Gene:** 94204 Rat Omim: 600423 Human **SwissProt:** P42891 Cow **SwissProt:** P42892 Human **SwissProt:** Q4PZA2 Mouse **SwissProt:** P42893 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. Endothelin-converting enzyme(endothelin—converting enzyme-1)It is a key enzyme in the biosynthesis of endothelin ET and plays an extremely important role in regulating the biological activity of endothelin in the body.