



心脏特异性丝氨酸蛋白酶抗体

产品货号 : mlR7685

英文名称 : Corin

中文名称 : 心脏特异性丝氨酸蛋白酶抗体

别 名 : ATC 2; ATC2; Atrial natriuteric peptide converting enzyme; Corin serine peptidase; CRN; Heart specific serine proteinase; Heart specific serine proteinase ATC2; Lrp 4 ; Lrp4; Pro ANP convertase; Pro ANP converting enzyme; TMPRSS 10; Transmembrane protease serine 10.

研究领域 : 心血管 细胞生物 激酶和磷酸酶

抗体来源 : Rabbit

克隆类型 : Polyclonal

交叉反应 : Human, Mouse, Rat, Dog, Pig, Horse,

产品应用 : ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 IF=1:100-500 (石蜡切片需做抗原修复)

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.



分子量： 115kDa

细胞定位： 细胞膜 分泌型蛋白

性 状： Lyophilized or Liquid

浓 度： 1mg/ml

免 疫 原： KLH conjugated synthetic peptide derived from human Corin:165-245/1042 <Extracellular>

亚 型： IgG

纯化方法： affinity purified by Protein A

储 存 液： 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件： 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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PubMed： PubMed

产品介绍： Corin was first described as a trypsin-like serine proteinase in the heart which processed pro-atrial natriuretic peptide into the active form ANP. Corin cleaves pro-ANP at Arg98/Ser-99, and blocking Corin message

inhibits pro-ANP processing. Null mutant mice lacking Corin develop hypertension, and a series of missense mutations have been identified in humans with high blood pressure and hypertension. Corin is a member of the type-II transmembrane serine proteinases, such as Hepsin, Epitheliasin, Matriptase and enteropeptidase. The Corin domain structure includes a cytoplasmic domain, a transmembrane domain, a spacer region, a frizzled-like domain, 5 LDL Receptor-like domains, another frizzled-like domain, 3 more LDLR-like repeats, a SRCR (Scavenger Receptor-Cysteine Rich) domain (also called macrophage scavenger-like domain), and finally the trypsin-like serine proteinase domain. The complex domain structure puts Corin into the “mosaic” TMRPSS family, so named because of the wide variety of domains.

Function:

Serine-type endopeptidase involved in atrial natriuretic peptide hormone (NPPA) processing. Converts through proteolytic cleavage the non-functional propeptide NPPA into the active hormone, thereby regulating blood pressure in heart and promoting natriuresis, diuresis and vasodilation. Proteolytic cleavage of pro-NPPA also plays a role in female pregnancy by promoting trophoblast invasion and spiral artery remodeling in uterus. Also acts as a regulator of sodium reabsorption in kidney. May also process pro-NPPB the B-type natriuretic peptide.

Isoform 2: has weaker endopeptidase activity compared to isoform 1.

Subcellular Location:

Cell membrane; Single-pass type II membrane protein. Isoform 2: Cell membrane; Single-pass type II membrane protein. Note=Less efficiently targeted to the cell membrane compared to isoform 1. Atrial natriuretic peptide-converting enzyme, 180 kDa soluble fragment: Secreted. Note=Soluble form produced following cleavage by ADAM10. Atrial natriuretic peptide-converting enzyme, 160 kDa soluble fragment: Secreted. Note=Soluble form produced following autocatalytic cleavage. Atrial natriuretic peptide-converting enzyme, 100 kDa soluble fragment: Secreted. Note=Soluble form produced following autocatalytic cleavage.

Tissue Specificity:

Highly expressed in heart. Expressed in heart myocytes. Also expressed in pregnant uterus.

Post-translational modifications:



N-glycosylated; required for processing and activation.

Similarity:

Belongs to the peptidase S1 family.

Contains 2 FZ (frizzled) domains.

Contains 7 LDL-receptor class A domains.

Contains 1 peptidase S1 domain.

Contains 1 SRCR domain.

SWISS:

Q9Y5Q5

Gene ID:

10699

Important Note:

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

产品图片：

