

# CORIN Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP6868c

## Product Information

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Application	WB, E
Primary Accession	<a href="#">Q9Y5Q5</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB18116
Calculated MW	116486
Antigen Region	459-490

## Additional Information

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Gene ID	10699
Other Names	Atrial natriuretic peptide-converting enzyme, 3421-, Corin, Heart-specific serine proteinase ATC2, Pro-ANP-converting enzyme, Transmembrane protease serine 10, Atrial natriuretic peptide-converting enzyme, N-terminal propeptide, Atrial natriuretic peptide-converting enzyme, activated protease fragment, Atrial natriuretic peptide-converting enzyme, 180 kDa soluble fragment, Atrial natriuretic peptide-converting enzyme, 160 kDa soluble fragment, Atrial natriuretic peptide-converting enzyme, 100 kDa soluble fragment, CORIN, CRN, TMPRSS10
Target/Specificity	This CORIN antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 459-490 amino acids from the Central region of human CORIN.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CORIN Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	CORIN
<b>Synonyms</b>	CRN, TMPRSS10
<b>Function</b>	Serine-type endopeptidase involved in atrial natriuretic peptide (NPPA) and brain natriuretic peptide (NPPB) processing (PubMed: <a href="#">10880574</a> , PubMed: <a href="#">20489134</a> , PubMed: <a href="#">21288900</a> , PubMed: <a href="#">21763278</a> ). Converts through proteolytic cleavage the non-functional propeptides NPPA and NPPB into their active hormones, ANP and BNP(1-32) respectively, thereby regulating blood pressure in the heart and promoting natriuresis, diuresis and vasodilation (PubMed: <a href="#">10880574</a> , PubMed: <a href="#">20489134</a> , PubMed: <a href="#">21288900</a> , PubMed: <a href="#">21763278</a> ). Proteolytic cleavage of pro-NPPA also plays a role in female pregnancy by promoting trophoblast invasion and spiral artery remodeling in uterus (PubMed: <a href="#">22437503</a> ). Also acts as a regulator of sodium reabsorption in kidney (By similarity).
<b>Cellular Location</b>	Cell membrane; Single-pass type II membrane protein. Note=May easily detach from the endothelial cell membrane [Atrial natriuretic peptide-converting enzyme, 180 kDa soluble fragment]: Secreted. Note=Soluble form produced following cleavage by ADAM10 [Atrial natriuretic peptide-converting enzyme, 100 kDa soluble fragment]: Secreted. Note=Soluble form produced following autocatalytic cleavage
<b>Tissue Location</b>	Highly expressed in heart. Expressed in heart myocytes. Also expressed in pregnant uterus. Detected in blood, in plasma as well as in serum (at protein level)

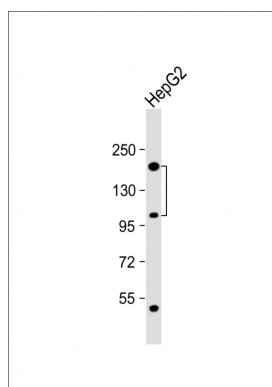
## Background

CORIN is a member of the type II transmembrane serine protease class of the trypsin superfamily. Members of this family are composed of multiple structurally distinct domains. This protein converts pro-atrial natriuretic peptide to biologically active atrial natriuretic peptide, a cardiac hormone that regulates blood volume and pressure. This protein may also function as a pro-brain-type natriuretic peptide convertase.

## References

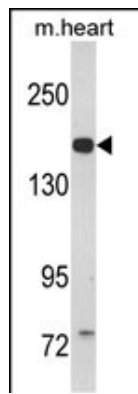
Fox,A.A., et.al., Anesthesiology 110 (4), 738-747 (2009)

## Images



Anti-CORIN Antibody (Center) at 1:1000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 116 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Western blot analysis of CORIN Antibody (Center) (Cat. #AP6868c) in mouse heart tissue lysates (35ug/lane). CORIN (arrow) was detected using the purified Pab.



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