

**Furin/PACE Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10671****Specification**

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**Furin/PACE Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P23188</a>
Other Accession	<a href="#">NP_035176</a>
Reactivity	Human, Mouse, Rat, Sheep, Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	86772

**Furin/PACE Antibody - Additional Information****Gene ID** 18550

Application & Usage	Western blotting (0.5-4 µg/ml). However, the optimal conditions should be determined individually. The antibody recognizes ~95-110 kDa Furin/PACE. A splice variant (~60 kDa) can also be detected.
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**Other Names**

FES upstream region , FUR , FURIN , PACE , PCSK3 , SPC1

**Target/Specificity**

Furin/PACE

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.5 mg/ml) affinity purified rabbit anti-Furin/PACE polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions**

**Precautions**

Furin/PACE Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Furin/PACE Antibody - Protein Information**

**Name** Furin

**Synonyms** Fur, Pcsk3

**Function**

Ubiquitous endoprotease within constitutive secretory pathways capable of cleavage at the RX(K/R)R consensus motif (PubMed:<a href="http://www.uniprot.org/citations/18713856" target="\_blank">18713856</a>). Mediates processing of TGFB1, an essential step in TGF-beta-1 activation (By similarity). Converts through proteolytic cleavage the non-functional Brain natriuretic factor prohormone into its active hormone BNP(1-45) (By similarity). By mediating processing of accessory subunit ATP6AP1/Ac45 of the V-ATPase, regulates the acidification of dense-core secretory granules in islets of Langerhans cells (PubMed:<a href="http://www.uniprot.org/citations/18713856" target="\_blank">18713856</a>).

**Cellular Location**

Golgi apparatus, trans-Golgi network membrane {ECO:0000250|UniProtKB:P09958}; Single-pass type I membrane protein. Cell membrane {ECO:0000250|UniProtKB:P09958}; Single-pass type I membrane protein. Secreted {ECO:0000250|UniProtKB:Q28193}. Endosome membrane {ECO:0000250|UniProtKB:P09958}; Single-pass type I membrane protein. Note=Shuttles between the trans-Golgi network and the cell surface. Propeptide cleavage is a prerequisite for exit of furin molecules out of the endoplasmic reticulum (ER). A second cleavage within the propeptide occurs in the trans Golgi network (TGN), followed by the release of the propeptide and the activation of furin {ECO:0000250|UniProtKB:P09958}

**Tissue Location**

Seems to be expressed ubiquitously (PubMed:2266110). Expressed in islets of Langerhans (PubMed:18713856)

**Furin/PACE Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Furin/PACE Antibody - Images****Furin/PACE Antibody - Background**

Furin is a ubiquitous protein located within the trans-Golgi network. It is found in many tissues and cell lines including MDCK, HeLa, HepG2 and NIH-3T3. Furin is a proprotein convertase that is responsible for the proteolytic maturation of many precursor proteins that are secreted from the

constitutive secretory pathway