10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Furin/PACE Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10671

Specification

Furin/PACE Antibody - Product Information

Application	**WB**
Primary Accession	P23188
Other Accession	NP_035176
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.**

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:18713856). 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:18713856).

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 Cytomety
- 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