

Furin/PACE Blocking Peptide
Catalog # PBV10402b**Specification**

Furin/PACE Blocking Peptide - Product Information

Primary Accession	P23188
Other Accession	NP_035176
Gene ID	18550
Calculated MW	86772

Furin/PACE Blocking Peptide - Additional Information**Gene ID** 18550**Application & Usage**

The peptide is used for blocking the antibody activity of Furin/PACE. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.

Other Names

Furin, 3.4.21.75, Dibasic-processing enzyme, Paired basic amino acid residue-cleaving enzyme, PACE, Prohormone convertase 3, Furin, Fur, Pcsk3

Target/Specificity

Furin/PACE

Formulation

50 µg (0.5 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

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

Furin/PACE Blocking Peptide - 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 Blocking Peptide - 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 Blocking Peptide - Images