

Furin Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55098

Specification

Furin Polyclonal Antibody - Product Information

Application	IHC-P
Primary Accession	P09958
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	86678

Furin Polyclonal Antibody - Additional Information

Gene ID 5045

Other Names

Furin, 3.4.21.75, Dibasic-processing enzyme, Paired basic amino acid residue-cleaving enzyme, PACE, FURIN, FUR, PACE, PCSK3

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glycerol

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Furin Polyclonal Antibody - Protein Information

Name FURIN {ECO:0000303|PubMed:7690548, ECO:0000312|HGNC:HGNC:8568}

Function

Ubiquitous endoprotease within constitutive secretory pathways capable of cleavage at the RX(K/R)R consensus motif (PubMed: [11799113](http://www.uniprot.org/citations/11799113) target="_blank">11799113, PubMed: [1629222](http://www.uniprot.org/citations/1629222) target="_blank">1629222, PubMed: [1713771](http://www.uniprot.org/citations/1713771) target="_blank">1713771, PubMed: [2251280](http://www.uniprot.org/citations/2251280) target="_blank">2251280, PubMed: [24666235](http://www.uniprot.org/citations/24666235) target="_blank">24666235, PubMed: [25974265](http://www.uniprot.org/citations/25974265) target="_blank">25974265, PubMed: [7592877](http://www.uniprot.org/citations/7592877) target="_blank">7592877, PubMed: [7690548](http://www.uniprot.org/citations/7690548) target="_blank">7690548, PubMed: [9130696](http://www.uniprot.org/citations/9130696) target="_blank">9130696). Mediates processing of TGFβ1, an essential step in TGF-beta-1 activation (PubMed: [7737999](http://www.uniprot.org/citations/7737999) target="_blank">7737999). Converts through proteolytic cleavage the non-functional Brain natriuretic factor prohormone into its active hormone BNP(1-32) (PubMed: [20489134](http://www.uniprot.org/citations/20489134) target="_blank">20489134, PubMed: [20489134](#) target="_blank">20489134).

<http://www.uniprot.org/citations/21763278> (21763278). 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 (By similarity).

Cellular Location

Golgi apparatus, trans-Golgi network membrane; Single-pass type I membrane protein. Cell membrane; Single-pass type I membrane protein. Secreted. Endosome membrane; Single-pass type I membrane protein. Note=Shuttles between the trans-Golgi network and the cell surface (PubMed:11799113, PubMed:9412467). 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 (PubMed:11799113)

Tissue Location

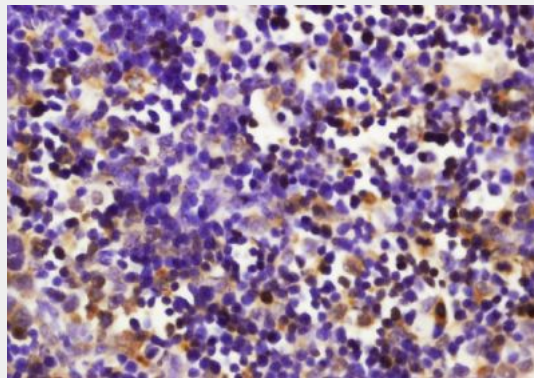
Seems to be expressed ubiquitously.

Furin Polyclonal 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 Polyclonal Antibody - Images



Tissue/cell: mouse spleen tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-Furin Polyclonal Antibody, Unconjugated(bs-13228R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining