

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

**Specification**

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**Furin Polyclonal Antibody - Product Information**

Application	IHC-P
Primary Accession	<a href="#">P09958</a>
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% Glyce

**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</a>, PubMed: [1629222](http://www.uniprot.org/citations/1629222) target="\_blank">1629222</a>, PubMed: [1713771](http://www.uniprot.org/citations/1713771) target="\_blank">1713771</a>, PubMed: [2251280](http://www.uniprot.org/citations/2251280) target="\_blank">2251280</a>, PubMed: [24666235](http://www.uniprot.org/citations/24666235) target="\_blank">24666235</a>, PubMed: [25974265](http://www.uniprot.org/citations/25974265) target="\_blank">25974265</a>, PubMed: [7592877](http://www.uniprot.org/citations/7592877) target="\_blank">7592877</a>, PubMed: [7690548](http://www.uniprot.org/citations/7690548) target="\_blank">7690548</a>, PubMed: [9130696](http://www.uniprot.org/citations/9130696) target="\_blank">9130696</a>). Mediates processing of TGFβ1, an essential step in TGF-beta-1 activation (PubMed: [7737999](http://www.uniprot.org/citations/7737999) target="\_blank">7737999</a>). 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</a>, PubMed: [20489134](#) target="\_blank">20489134</a>).

href="http://www.uniprot.org/citations/21763278" target="\_blank">21763278</a>). 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

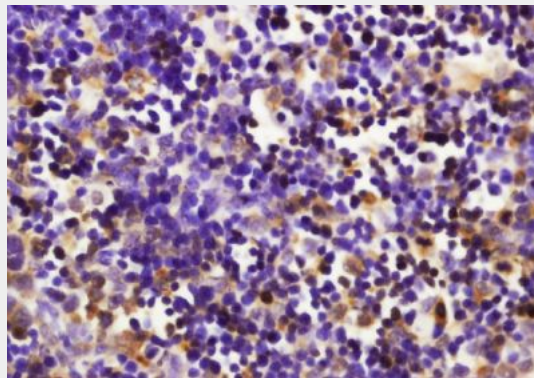
Seems to be expressed ubiquitously.

### 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