

# Furin Antibody

Rabbit mAb

Catalog # AP91781

## Product Information

<b>Application</b>	WB, IHC, IF, ICC, IHF
<b>Primary Accession</b>	<a href="#">P09958</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	FUR; FURIN; PACE; PCSK3; SPC1;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	86678

## Additional Information

<b>Dilution</b>	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human Furin
<b>Description</b>	Furin is likely to represent the ubiquitous endoprotease activity within constitutive secretory pathways and capable of cleavage at the RX(K/R)R consensus motif.
<b>Storage Condition and Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

## Protein Information

<b>Name</b>	FURIN {ECO:0000303   PubMed:7690548, ECO:0000312   HGNC:HGNC:8568}
<b>Function</b>	Ubiquitous endoprotease within constitutive secretory pathways capable of cleavage at the RX(K/R)R consensus motif (PubMed: <a href="#">11799113</a> , PubMed: <a href="#">1629222</a> , PubMed: <a href="#">1713771</a> , PubMed: <a href="#">2251280</a> , PubMed: <a href="#">24666235</a> , PubMed: <a href="#">25974265</a> , PubMed: <a href="#">7592877</a> , PubMed: <a href="#">7690548</a> , PubMed: <a href="#">9130696</a> ). Mediates processing of TGFB1, an essential step in TGF-beta-1 activation (PubMed: <a href="#">7737999</a> ). Converts through proteolytic cleavage the non-functional Brain natriuretic factor prohormone into its active hormone BNP(1-32) (PubMed: <a href="#">20489134</a> , PubMed: <a href="#">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).
<b>Cellular Location</b>	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

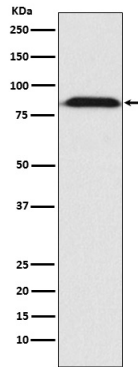
for exit of furin molecules out of the endoplasmic reticulum (ER). A second cleavage within the propeptide occurs in the trans Golgi network (TGN), followed by the release of the propeptide and the activation of furin (PubMed:11799113)

#### Tissue Location

Seems to be expressed ubiquitously.

#### Images

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Western blot analysis of Furin expression in HepG2 cell lysate.

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