

Furin Antibody

Rabbit mAb

Catalog # AP91781

Product Information

Application	WB, IHC, IF, ICC, IHF
Primary Accession	P09958
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	FUR; FURIN; PACE; PCSK3; SPC1;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	86678

Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Furin
Description	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.
Storage Condition and Buffer	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

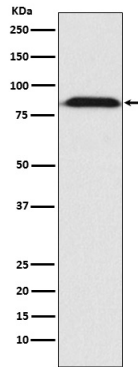
Name	FURIN {ECO:0000303 PubMed:7690548, ECO:0000312 HGNC:HGNC:8568}
Function	Ubiquitous endoprotease within constitutive secretory pathways capable of cleavage at the RX(K/R)R consensus motif (PubMed: 11799113 , PubMed: 1629222 , PubMed: 1713771 , PubMed: 2251280 , PubMed: 24666235 , PubMed: 25974265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

Images



Western blot analysis of Furin expression in HepG2 cell lysate.

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