

Furin Rabbit mAb

Catalog # AP77824

Product Information

Application	WB, IHC-P, IF, ICC
Primary Accession	P09958
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Immunogen	A synthesized peptide derived from human Furin
Purification	Affinity Chromatography
Calculated MW	86678

Additional Information

Gene ID	5045
Other Names	FURIN
Dilution	WB~~1/500-1/1000 IHC-P~~N/A IF~~1:50~200 ICC~~N/A
Format	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

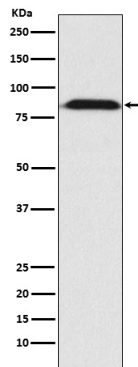
Name	FURIN {ECO:0000303 PubMed:7690548, ECO:0000312 HGNC:HGNC:8568}
Function	Ubiquitous endoprotease within constitutive secretory pathways capable of cleavage at the RX(K/R)R consensus motif (PubMed: 11799113 , PubMed: 1629222 , PubMed: 1713771 , PubMed: 2251280 , PubMed: 24666235 , PubMed: 25974265 , PubMed: 7592877 , PubMed: 7690548 , PubMed: 9130696). Mediates processing of TGFβ1, 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



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