

FURIN / PCSK3 Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF2838a

Specification

FURIN / PCSK3 Antibody (internal region) - Product Information

Application	WB
Primary Accession	P09958
Other Accession	NP_002560.1 , 5045
Reactivity	Human
Predicted	Mouse, Rat
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	86678

FURIN / PCSK3 Antibody (internal region) - 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

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

FURIN / PCSK3 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

FURIN / PCSK3 Antibody (internal region) - 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), PubMed: [1629222](http://www.uniprot.org/citations/1629222), PubMed: [1713771](http://www.uniprot.org/citations/1713771), PubMed: [2251280](http://www.uniprot.org/citations/2251280), PubMed: [24666235](http://www.uniprot.org/citations/24666235))

target="_blank">24666235, PubMed:25974265, PubMed:7592877, PubMed:7690548, PubMed:9130696). Mediates processing of TGF β 1, 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.

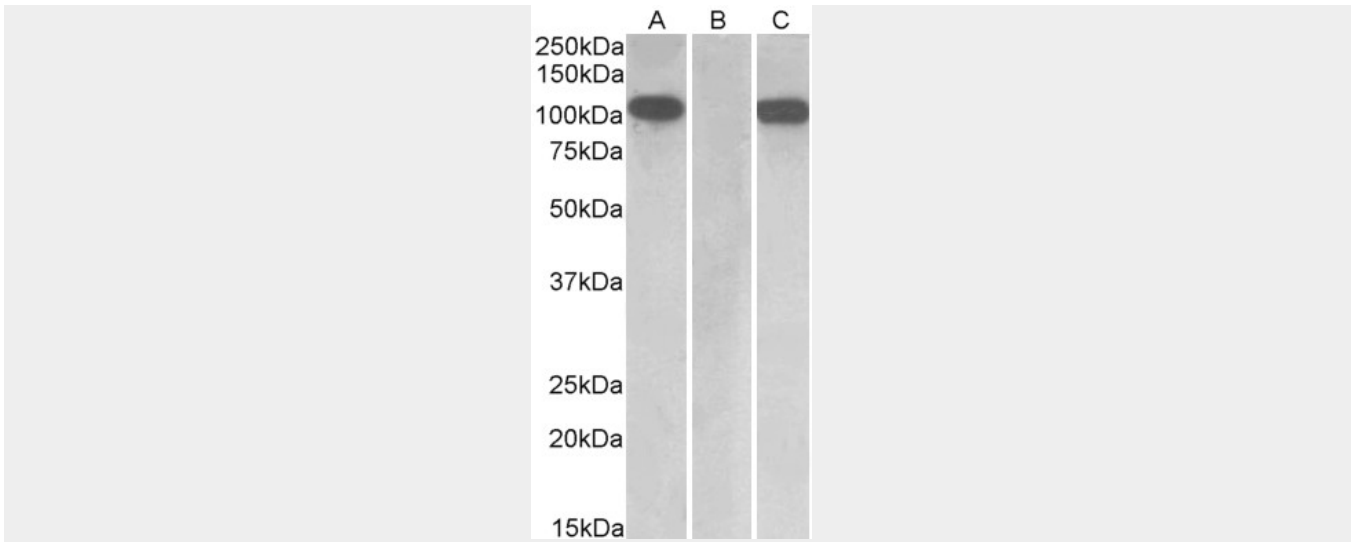
FURIN / PCSK3 Antibody (internal region) - Protocols

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 / PCSK3 Antibody (internal region) - Images





HEK293 lysate (10ug protein in RIPA buffer) overexpressing Human Furin with C-terminal MYC tag probed with AF2838a (1ug/ml) in Lane A and probed with anti-MYC Tag (1/1000) in lane C. Mock-transfected HEK293 probed with AF2838a (1ug/ml) in Lane B. Primary incubations were for 1 hour. Detected by chemiluminescence.

FURIN / PCSK3 Antibody (internal region) - References

Hepatic proprotein convertases modulate HDL metabolism Jin W, Wang X, Millar JS, Quertermous T, Rothblat GH, Glick JM, Rader DJ Cell Metab. 2007 Aug;6(2):129-36 PMID: 17681148