

KD-Validated Anti-FURIN Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1136**Specification****KD-Validated Anti-FURIN Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	P09958
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 87 kDa; observed, 75 kDa kDa
Gene Name	FURIN
Aliases	FURIN; Furin, Paired Basic Amino Acid Cleaving Enzyme; PCSK3; SPC1; PACE; FUR; Paired Basic Amino Acid Residue-Cleaving Enzyme 3; Proprotein Convertase Subtilisin/Kexin 3; Subtilisin-Like Proprotein Convertase 1; EC 3.4.21.75; Furin; Paired Basic Amino Acid Cleaving Enzyme (Furin, Membrane Associated Receptor Protein); Furin (Paired Basic Amino Acid Cleaving Enzyme); Proprotein Convertase Subtilisin/Kexin Type 3; Furin, Membrane Associated Receptor Protein; Dibasic Processing Enzyme; Dibasic-Processing Enzyme; FES Upstream Region; EC 3.4.21
Immunogen	A synthesized peptide derived from human Furin

KD-Validated Anti-FURIN Rabbit Monoclonal 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 {ECO:0000303 PubMed:7690548, ECO:0000312 HGNC:HGNC:8568}

KD-Validated Anti-FURIN Rabbit Monoclonal 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), PubMed: [1629222](http://www.uniprot.org/citations/1629222), PubMed: [1713771](http://www.uniprot.org/citations/1713771), PubMed: [2251280](http://www.uniprot.org/citations/2251280))

target="_blank">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

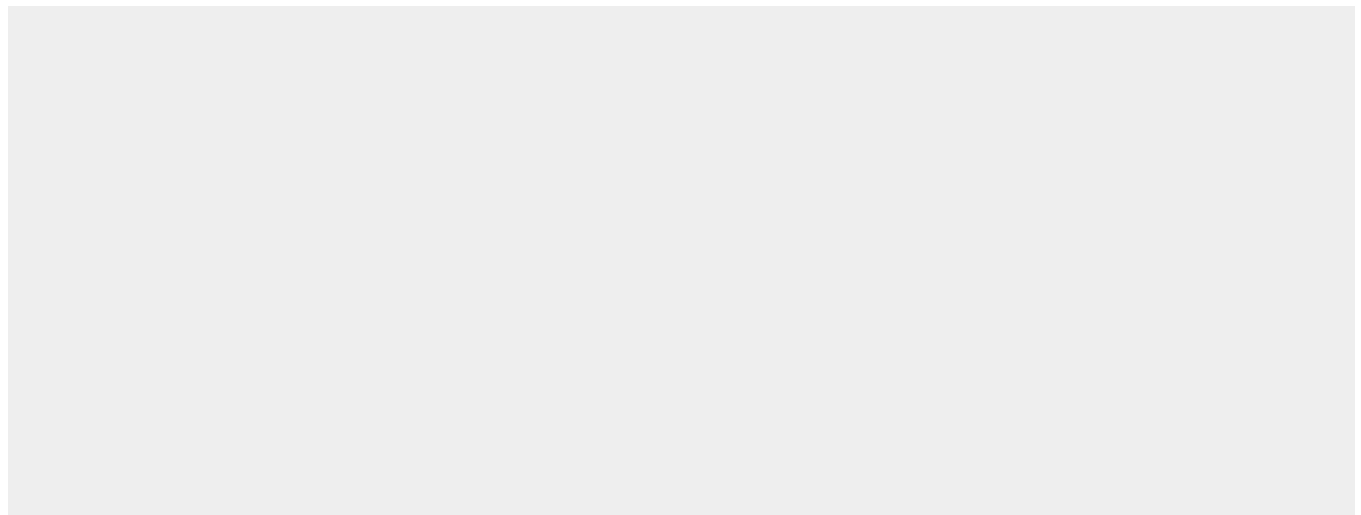
Seems to be expressed ubiquitously.

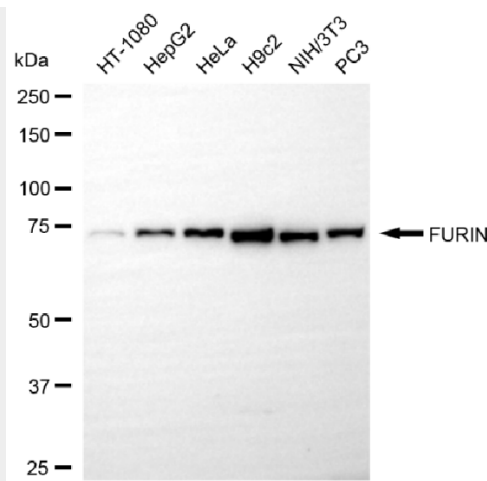
KD-Validated Anti-FURIN Rabbit Monoclonal Antibody - Protocols

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](#)

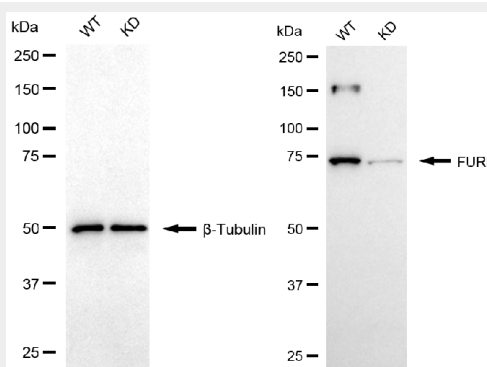
KD-Validated Anti-FURIN Rabbit Monoclonal Antibody - Images





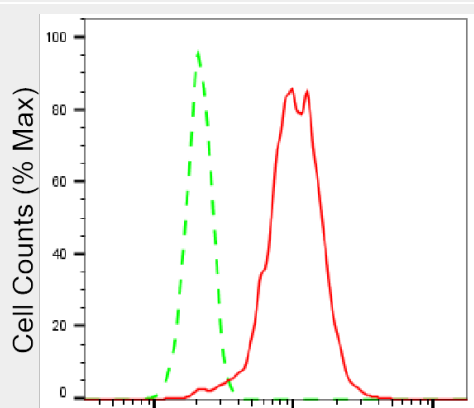
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Western blotting analysis using anti-FURIN antibody (Cat#AGI1136). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-FURIN antibody (Cat#AGI1136, 1:5,000) and HRP-conjugated goat anti rabbit secondary antibody respectively.



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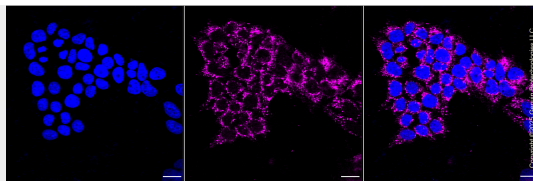
Western blotting analysis using anti-FURIN antibody (Cat#AGI1136). FURIN expression in wild-type (WT) and FURIN knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-FURIN antibody (Cat#AGI1136, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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FURIN-Alexa Fluor® 647

Flow cytometric analysis of FURIN expression in HeLa cells using FURIN antibody (Cat#AGI1136, 1:2,000). Green, isotype control; red, FURIN.



Immunocytochemical staining of HeLa cells with FURIN antibody (Cat#AGI1136, 1:1,000). Nuclei were stained blue with DAPI; FURIN was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 μ m.