

bsm-54283R**[Primary Antibody]**

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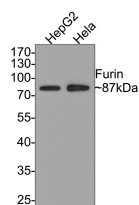
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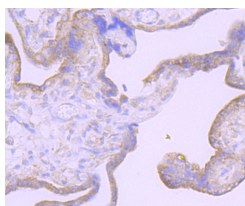
Furin Recombinant Rabbit mAb**— DATASHEET —****Host:** Rabbit**Isotype:** IgG**Clonality:** Recombinant**GeneID:** 5045**SWISS:** P09958**Target:** Furin**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

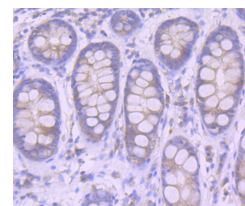
Background: Furin is a calcium-dependent serine endoprotease that belongs to the subtilisin-like proprotein convertase family. The members of this family process latent precursor proteins into their biologically active products. Furin cleaves at paired basic amino acid processing sites within parathyroid hormone, transforming growth factor β 1 precursor, proalbumin, pro- β -secretase, membrane type-1 matrix metalloproteinase, β subunit of pro-nerve growth factor and von Willebrand factor. Furin can directly cleave proMMP-2 within the trans-Golgi network leading to an inactive form of matrix metalloproteinase-2 (MMP-2). Furin is synthesized as an inactive zymogen that may minimize the occurrence of premature enzymatic activity that would lead to alternative protein activation or degradation. The inhibitory mechanism is based on the presence of an inactivating prosegment at the NH2 terminal of the Furin. After initial autocatalytic cleavage, the prosegment remains tightly associated until it reaches the trans-Golgi network where the dissociation of the prosegment and activation of furin occurs.

Applications: WB (1:300-500)**IHC-P** (1:100-500)**IHC-F** (1:400-800)**IF** (1:100-500)**Reactivity:** Human, Mouse
(predicted: Rat)**Predicted
MW.:** 74 kDa**Subcellular
Location:** Extracellular matrix ,Cell
membrane ,Cytoplasm**— VALIDATION IMAGES —**

Western blot analysis of Furin on different lysates with Rabbit anti-Furin antibody (bsm-54283R) at 1/500 dilution. Lane 1: HepG2 cell lysate Lane 2: Hela cell lysate
Lysates/proteins at 10 μ g/Lane. Predicted band size: 87 kDa Observed band size: 87 kDa
Exposure time: 1 minute; 10% SDS-PAGE gel.



Immunohistochemical analysis of paraffin-embedded human placenta tissue using anti-Furin antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH2O and PBS, and then probed with the primary antibody (ET7107-37, 1/50) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



Immunohistochemical analysis of paraffin-embedded human colon tissue using anti-Furin antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH2O and PBS, and then probed with the primary antibody (bsm-54283R, 1/50) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

— SELECTED CITATIONS —

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=12.8]** Davaanyam Dashdulam. et al. HMGB1 induces hepcidin upregulation in astrocytes and causes an acute iron surge and subsequent ferroptosis in the postischemic brain. EXP MOL MED. 2023 Nov;;1-15 WB ;Rat. 37907744
- **[IF=9.5]** Yamamichi Gaku. et al. GDF15 propeptide promotes bone metastasis of castration-resistant prostate cancer by augmenting the bone microenvironment. BIOMARK RES. 2024 Dec;12(1):1-20 IHC ;Human. 39587633