

bs-13228R**[Primary Antibody]****Furin Rabbit pAb****BioSS**
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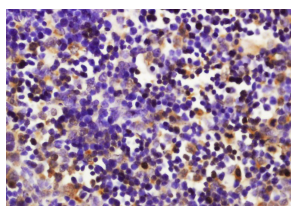
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— DATASHEET —

Host: Rabbit Clonality: Polyclonal GeneID: 5045 Target: Furin Immunogen: KLH conjugated synthetic peptide derived from human Furin: 401-500/794. 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.	Isotype: IgG SWISS: P09958 Applications: IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Reactivity: Mouse (predicted: Human, Rat, Rabbit, Pig, Sheep, Cow, Chicken, Dog, Horse) Predicted MW.: 74 kDa Subcellular Location: Extracellular matrix ,Cell membrane ,Cytoplasm
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— VALIDATION IMAGES —

Tissue/cell: mouse spleen tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Furin Polyclonal Antibody, Unconjugated(bs-13228R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

— SELECTED CITATIONS —

- **[IF=4.238]** Takashi Mori. et al. Gallic Acid is a Dual α / β -Secretase Modulator that Reverses Cognitive Impairment and

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

Remediates Pathology in Alzheimer Mice. J Biol Chem. 2020 Nov;295:16251 WB ;Mouse. 32913125

- **[IF=3.355]** Samuel James Brake. et al. SARS-CoV-2 (COVID-19) Adhesion Site Protein Upregulation in Small Airways, Type 2 Pneumocytes, and Alveolar Macrophages of Smokers and COPD – Possible Implications for Interstitial Fibrosis. Int J Chronic Obstr. 2022 Jan;17:101-115 IF,IHC ;Human. 35046647
- **[IF=1.376]** Gentaro Yamasaki. et al. Effect of FURIN SNP rs17514846 on coronary atherosclerosis in human cardiac specimens: An autopsy study of 106 cases. Legal Med-Tokyo. 2022 Mar;55:102006 IHC ;Human. 35008003