

Anti-Furin Antibody (1V361)

Product Details

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|-------------------|--------------------------------------|
| Ig Type: | IgG |
| Reactivity: | Human,Mouse (predicted:Rat) |
| Molecular Weight: | Theoretical: 74 kDa. Actual: 87 kDa. |
| Clone: | 1V361 |
| Purification: | Protein A purified |

Applications

Verified Activity:

1. Western blot analysis of Furin on different lysates with Rabbit anti-Furin antibody (TMAB-06208) at 1/500 dilution.
Lane 1: HepG2 cell lysate
Lane 2: Hela cell lysate
Lysates/proteins at 10 µg/Lane.
Predicted band size: 87 kDa
Observed band size: 87 kDa
Exposure time: 1 minute;
10% SDS-PAGE gel.
2. Immunohistochemical analysis of paraffin-embedded human liver 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 (TMAB-06208, 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.
3. Immunohistochemical analysis of paraffin-embedded mouse brain 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 (TMAB-06208, 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.
4. 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 (TMAB-06208, 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.
5. 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

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counterstained with hematoxylin and mounted with DPX.

Application: WB,IHC-P,IHC-Fr,IF

Recommended WB: 1:500-200; IHC-P: 1:100-500; IHC-Fr: 1:400-800; IF: 1:100-500

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human Furin

Antigen Species: Human

Gene ID: 5045

Uniprot ID: P09958

Research 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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