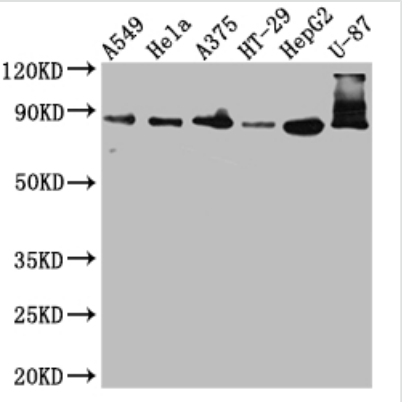
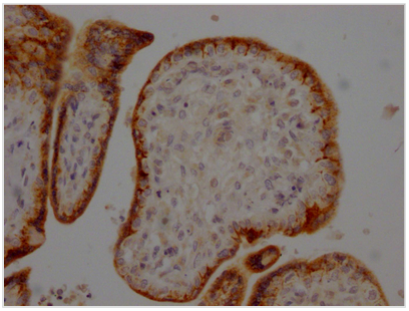
FURIN Antibody

Product Code	CSB-RA271669A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P09958
Immunogen	A synthesized peptide derived from human Furin
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200
Relevance	Furin is likely to represent the ubiquitous endoprotease activity within constitutive secretory pathways and capable of cleavage at the RX(K/R)R consensus motif.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cell biology; Metabolism; Signal transduction
Gene Names	FURIN
Accession NO.	1C3

Image



Western Blot
Positive WB detected in: A549 whole cell lysate, Hela whole cell lysate, A375 whole cell lysate, HT-29 whole cell lysate, HepG2 whole cell lysate, U-87 whole cell lysate
All lanes: Furin antibody at 1:1000
Secondary
Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 87 kDa
Observed band size: 87, 72 kDa



IHC image of CSB-RA271669A0HU diluted at 1:100 and staining in paraffin-embedded human placenta tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

FURIN is a subtilisin-like proprotein convertase with diverse cellular functions. Furin has a well-known role in viral pathogenesis and efficiently cleaves polybasic or multi-basic sites such as those found in influenza virus subtype H5 and H7. Emerging evidence suggests that FURIN plays a critical role in the activation and infectivity of SARS-CoV-2. In SARS-CoV-2, structural studies have suggested that furin cleavage at the S1/S2 boundary primes the spike for an open conformation required for binding to the ACE2 entry receptor.

The generation of this recombinant FURIN antibody occurs in a series of steps: immunization, splenocytes & PBMC, single B cell sorting, mRNA extraction, RT-PCR & insert vector, expression, ELISA validation. And ELISA, WB, IHC was carried out Every step was performed under strict standards to ensure the researchers can have a recombinant FURIN antibody with premium quality.