Datasheet for ABIN7603032

anti-Cathepsin L antibody (Middle Region)

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Overview

Quantity:	100 µg
Target:	Cathepsin L (CTSL1)
Binding Specificity:	Middle Region
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Cathepsin L antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Cathepsin L/MEP/Ctsl Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of mouse Cathepsin L/MEP/Ctsl, which shares 70% and 95% amino acid (aa) sequence identity with human CTSL, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Cathepsin L/MEP/Ctsl Antibody Picoband® (ABIN7603032). Tested in Flow Cytometry, IHC, WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	Cathepsin L (CTSL1)
Alternative Name:	Ctsl (CTSL1 Products)
Background:	Synonyms: Neutrophil cytosol factor 1, NCF-1, 47 kDa autosomal chronic granulomatous disease protein, 47 kDa neutrophil oxidase factor, NCF-47K, Neutrophil NADPH oxidase factor 1, Nox organizer 2, Nox-organizing protein 2, SH3 and PX domain-containing protein 1A, p47-phox, NCF1, NOXO2, SH3PXD1A Tissue Specificity: Detected in peripheral blood monocytes and neutrophils (at protein level). Background: The protein encoded by this gene is a lysosomal cysteine proteinase that plays a major role in intracellular protein catabolism. Its substrates include collagen and elastin, as well as alpha-1 protease inhibitor, a major controlling element of neutrophil elastase activity. The encoded protein has been implicated in several pathologic processes, including myofibril necrosis in myopathies and in myocardial ischemia, and in the renal tubular response to proteinuria. This protein, which is a member of the peptidase C1 family, is a dimer composed of disulfide-linked heavy and light chains, both produced from a single protein precursor. Additionally, this protein cleaves the S1 subunit of the SARS-CoV-2 spike protein, which is necessary for entry of the virus into the cell.
Molecular Weight:	20-42 kDa
Gene ID:	13039
UniProt:	P06797
Pathways:	Activation of Innate immune Response, Toll-Like Receptors Cascades

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Rat Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Mouse 1. Abudula, A., Rommerskirch, W., Weber, E., Gunther, D., Wiederanders, B. Splice variants of human cathepsin L mRNA show different expression rates. Biol. Chem. 382: 1583-1591, 2001. 2. Arora, S., Chauhan, S. S. Identification and characterization of a novel human cathepsin L splice variant. Gene 293: 123-131, 2002. 3. Bakhshi, R., Goel, A., Seth, P., Chhikara, P., Chauhan, S. S. Cloning and characterization of human cathepsin L promoter. Gene 275: 93-101, 2001.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.

