

Datasheet for ABIN7603030
anti-Cathepsin F antibody (Middle Region)



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Overview

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

Product Details

Purpose:	Anti-Cathepsin F/CTSF Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human Cathepsin F/CTSF, which shares 69.6% amino acid (aa) sequence identity with both mouse Cathepsin F/CTSF.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Cathepsin F-CTSF Antibody Picoband® (ABIN7603030). Tested in WB, IHC, Flow Cytometry applications. This antibody reacts with Human. 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 F (CTSF)

Alternative Name: CTSF ([CTSF Products](#))

Background: Synonyms: CTSF, Cathepsin F, CATSF, EC 3.4.22.41

Background: Cathepsin F is a protein that in humans is encoded by the CTSF gene. Cathepsins are papain family cysteine proteinases that represent a major component of the lysosomal proteolytic system. Cathepsins generally contain a signal sequence, followed by a propeptide and then a catalytically active mature region. The very long (251 amino acid residues) proregion of the cathepsin F precursor contains a C-terminal domain similar to the pro-segment of cathepsin L-like enzymes, a 50-residue flexible linker peptide, and an N-terminal domain predicted to adopt a cystatin-like fold. The cathepsin F proregion is unique within the papain family cysteine proteases in that it contains this additional N-terminal segment predicted to share structural similarities with cysteine protease inhibitors of the cystatin superfamily. This cystatin-like domain contains some of the elements known to be important for inhibitory activity. CTSF encodes a predicted protein of 484 amino acids which contains a 19 residue signal peptide. Cathepsin F contains five potential N-glycosylation sites, and it may be targeted to the endosomal/lysosomal compartment via the mannose 6-phosphate receptor pathway. The cathepsin F gene is ubiquitously expressed, and it maps to chromosome 11q13, close to the gene encoding cathepsin W.

Molecular Weight: 53 kDa

Gene ID: 8722

Application Details

Application Notes: Western blot, 0.25-0.5 µg/mL, Human

Immunohistochemistry, 2-5 µg/mL, Human

Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human

1. Di Fabio, R., Moro, F., Pestillo, L., Meschini, M. C., Pezzini, F., Doccini, S., Casali, C., Pierelli, F., Simonati, A., Santorelli, F. M. Pseudo-dominant inheritance of a novel CTSF mutation associated with type B Kufs disease. *Neurology* 83: 1769-1770, 2014. 2. Nagler, D. K., Sulea, T., Menard, R. Full-length cDNA of human cathepsin F predicts the presence of a cystatin domain at the N-terminus of the cysteine protease zymogen. *Biochem. Biophys. Res. Commun.* 257:

Application Details

313-318, 1999. 3. Santamaria, I., Velasco, G., Pendas, A. M., Paz, A., Lopez-Otin, C. Molecular cloning and structural and functional characterization of human cathepsin F, a new cysteine proteinase of the papain family with a long propeptide domain. J. Biol. Chem. 274: 13800-13809, 1999.

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.