BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Cathepsin D/Ctsd Antibody Picoband®

Catalog Number: A01361

About Ctsd

Cathepsin D is a protein that in humans is encoded by the CTSD gene. This proteinase is a member of the peptidase C1 family, having a specificity similar to but narrower than that of pepsin A. It is mapped to 11p15.5. The cDNA encodes a 412-amino acid protein with 20 and 44 amino acids in signal peptide and a pre- and prosegment, respectively. Cathepsin D is one of the lysosomal proteinases. It is ubiquitously expressed and is involved in proteolytic degradation of proteins, cell invasion, and apoptosis, playing a significant role in cell signaling technology. Mutations in this gene are involved in the pathogenesis of several diseases, including breast cancer and possibly Alzheimer's disease and it has been considered as a breast cancer tumor marker.

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Overview

Product Name	Anti-Cathepsin D/Ctsd Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Cathepsin D/Ctsd Antibody Picoband® catalog # A01361. Tested in ELISA, IF, ICC, and WB applications. This antibody reacts with Mouse and Rat, offering an essential tool for scientific applications such as cell lysate analysis and breast adenocarcinoma cell line research. 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.
Application	ELISA, IF, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Storage Instructions	Store 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 freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P18242

Technical Details

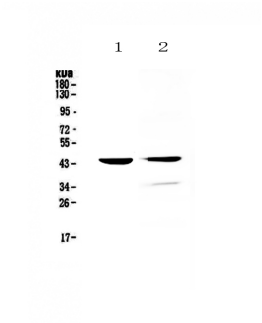
Immunogen	E. coli-derived mouse Cathepsin D recombinant protein (Position: K161-Q358).

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Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for ICC.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot,0.1-0.5ug/ml Immunocytochemistry/Immunofluorescence, 5 ug/ml ELISA,0.1-0.5ug/ml

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Anti-Cathepsin D/Ctsd Antibody Picoband® (A01361) Images



Western blot analysis of Cathepsin D using anti-Cathepsin D antibody (A01361). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: mouse testis tissue lysates,Lane 2: rat testis tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hours at RT. The membrane was incubated with rabbit anti-Cathepsin D antigen affinity purified polyclonal antibody (Catalog # A01361) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times for 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Cathepsin D at approximately 45KD. The expected band size for Cathepsin D is at 45KD.

2 Publications Citing This Product

1. PubMed ID: 27310928, Inhibition of autophagosome-lysosome fusion by ginsenoside Ro via the ESR2-NCF1-ROS pathway sensitizes esophageal cancer cells to 5-fluorouracil-induced cell death via the CHEK1-mediated DNA damage checkpoint

2. PubMed ID: 33203874, Ma WQ,Sun XJ,Zhu Y,Liu NF. PDK4 promotes vascular calcification by interfering with autophagic activity and metabolic reprogramming. Cell Death Dis.2020 Nov 17;11(11):991.doi:10.1038/s41419-020-03162-w. PMID:33203874;PMCID:PMC7673024.

Visit bosterbio.com/anti-cathepsin-d-picoband-trade-antibody-a01361-boster.html to see all 2 publications.

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