

Anti-Cathepsin D/Ctsd Antibody Picoband® APC Conjugated

Catalog Number: A01361-APC

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.

Overview

Product Name	Anti-Cathepsin D/Ctsd Antibody Picoband® APC Conjugated
Reactive Species	Mouse, Rat
Application	Recommended applications are based on the parent unconjugated antibody (ELISA, IF, ICC, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P18242

Technical Details

Immunogen	E. coli-derived mouse Cathepsin D recombinant protein (Position: K161-Q358).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	APC Excitation Wavelength: 633-647 nm Emission Wavelength: 660 nm

Suggested Dilutions

Optimal dilutions should be determined by end users.

2 Publications Citing This Product

1. 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.

2. 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

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

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