anti-Human Cathepsin D Polyclonal Antibody | anti-CTSD antibody

Anti-Cathepsin D Antibody

CATALOG #	REACTIVITY	APPLICATIONS
AAA46216	**Human**	**Immunohistochemistry, Western Blot**

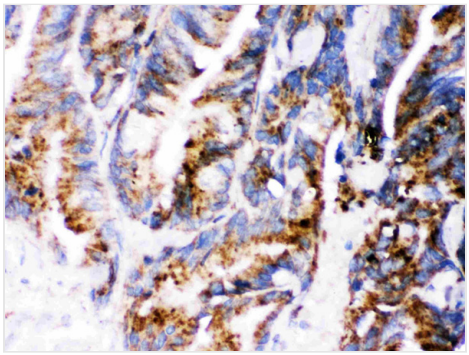
PRODUCT SYNONYMS

Cathepsin D; Polyclonal Antibody; Anti-Cathepsin D Antibody; CatD; CATD_HUMAN; Cathepsin D heavy chain; Cathepsin D light chain; CathepsinD; CD; Ceroid lipofuscinosis neuronal 10; CLN10; CPSD; CTSD; Lysosomal aspartyl peptidase; Lysosomal aspartyl protease; MGC2311; cathepsin D; anti-CTSD antibody

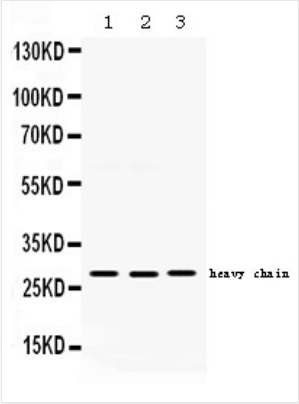
PRODUCT SPECIFICATIONS

Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	412
Applicable Applications for anti-CTSD antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human Cathepsin D recombinant protein (Position: M201-L412). Human Cathepsin D shares 84.4% and 84% amino acid (aa) sequence identity with mouse and rat Cathepsin D, respectively.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohiostchemistry)
Cathepsin D was detected in paraffin-embedded sections of human Intestinal cancer tissues using rabbit anti- Cathepsin D Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)
Western blot analysis of Cathepsin D expression in HEPG2 whole cell lysates (lane 1), A549 whole cell lysates (lane 2) and PANC whole cell lysates (lane 3). Cathepsin D at 28KD was detected using rabbit anti- Cathepsin D Antigen Affinity purified polyclonal antibody at0.5 ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-CTSD antibody	Description: Rabbit IgG polyclonal antibody for Cathepsin D(CTSD) detection. Tested with WB, IHC-P in Human. Background: 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 a pre- and prosegment, respectively. Cathepsin D is one of the lysosomal proteinases. It is ubiquitously expressed and is involved in proteolytic degradation, cell invasion, and apoptosis. Mutations in this gene are involved in the pathogenesis of several diseases, including breast cancer and possibly Alzheimer disease and it has been considered as a breast cancer tumor marker.
References	1. Faust PL, Kornfeld S, Chirgwin JM (Sep 1985). "Cloning and sequence analysis of cDNA for human cathepsin D". Proc Natl Acad Sci U S A 82 (15): 4910-4. 2. Wolf M, Clark-Lewis I, Buri C, Langen H, Lis M, Mazzucchelli L (April 2003). "Cathepsin D specifically cleaves the chemokines macrophage inflammatory protein-1 alpha, macrophage inflammatory protein-1 beta, and SLC that are expressed in human breast cancer". Am. J. Pathol. 162 (4): 1183-90.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503143
NCBI GeneID	1509
NCBI Accession #	NP_001900.1
NCBI GenBank Nucleotide #	NM_001909.4
UniProt Accession #	P07339; Q6IB57
Molecular Weight	44,552 Da
NCBI Official Full Name	cathepsin D preproprotein
NCBI Official Synonym Full Names	cathepsin D
NCBI Official Symbol	CTSD
NCBI Official Synonym Symbols	CPSD; CLN10; HEL-S-130P
NCBI Protein Information	cathepsin D
UniProt Protein Name	Cathepsin D
UniProt Gene Name	**CTSD**
UniProt Synonym Gene Names	CPSD
UniProt Entry Name	CATD_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/cathepsin-d-antibody-immunohistochemistry-western-blot-elisa/46216