10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Cathepsin D Picoband Antibody

Catalog # ABO11769

Product Information

Application	WB, IHC-P
Primary Accession	P18242
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Cathepsin D(CTSD) detection. Tested with WB, IHC-P in Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	13033
Other Names	Cathepsin D, 3.4.23.5, Ctsd
Calculated MW	44954
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Mouse, Rat, By Heat Western blot, 0.1-0.5 □g/ml, Mouse
Subcellular Localization	Lysosome. Melanosome . Secreted, extracellular space .
Source	Eukaryota
Protein Name	Cathepsin D
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E.coli-derived mouse Cathepsin D recombinant protein (Position: E65-L410). Mouse Cathepsin D shares 85% and 91% amino acid (aa) sequences identity with human and rat Cathepsin D, respectively.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

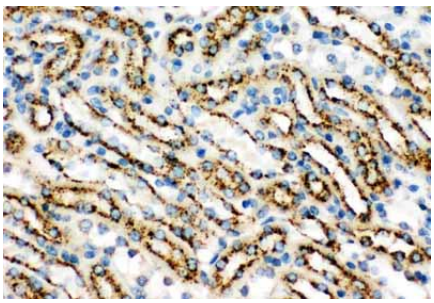
Protein Information

Name	Ctsd
Function	Acid protease active in intracellular protein breakdown. Plays a role in APP processing following cleavage and activation by ADAM30 which leads to APP degradation.
Cellular Location	Lysosome. Melanosome. Secreted, extracellular space

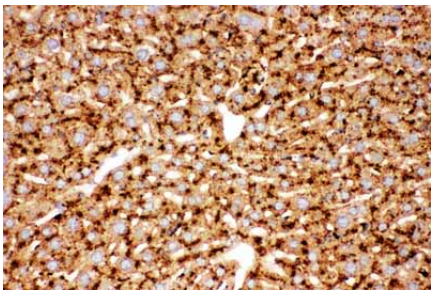
Background

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.

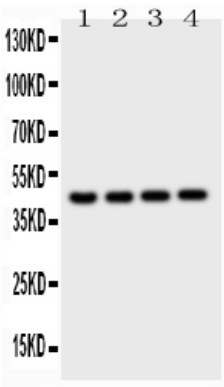
Images



Anti-Cathepsin D Picoband antibody, ABO11769-1.JPGIHC(P): Mouse Kidney Tissue



Anti-Cathepsin D Picoband antibody, ABO11769-2.JPGIHC(P): Mouse Liver Tissue



Anti-Cathepsin D Picoband antibody, ABO11769-3.jpgAll lanes: Anti-Cathepsin D(ABO11769) at 0.5ug/mlLane 1: Mouse Liver Tissue Lysate at 40ugLane 2: Mouse Brain Tissue Lysate at 40ugLane 3: Mouse Thymus Tissue Lysate at 40ugLane 4: NEURO Whole Cell Lysate at 40ugPredicted bind size: 45KDObserved bind size: 45KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.