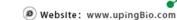


**(** Tel: 400-999-8863 ■ Emall:Upingbio.163.com





# Cathepsin D Polyclonal Antibody

YP-Ab-02528
IgG
Human;Mouse
WB;IHC;IF;ELISA
CTSD
Cathepsin D
Synthesized peptide derived from the Internal region of human Cathepsin D .
Cathepsin D Polyclonal Antibody detects endogenous levels of Cathepsin D protein.
Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Polyclonal, Rabbit,IgG
The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/5000 IF 1:50-200
1 mg/ml
≥90%
-20°C/1 year
CTSD; CPSD; Cathepsin D
44kD
Lysosome. Melanosome. Secreted, extracellular space. Identified by mass spectrometry in melanosome fractions from stage I to stage IV. In aortic samples, detected as an extracellular protein loosely bound to the matrix (PubMed:20551380).
Expressed in the aorta extracellular space (at protein level) (PubMed:20551380). Expressed in liver (at protein level) (PubMed:1426530).
catalytic activity:Specificity similar to, but narrower than, that of pepsin A. Does not cleave the 4-Gln- -His-5 bond in B chain of insulin.,disease:Defects in CTSD are the cause of neuronal ceroid lipofuscinosis 10 (CLN10) [MIM:610127]; also known as neuronal ceroid lipofuscinosis due to cathepsin D deficiency. The neuronal ceroid lipofuscinosis are a group of progressive neurodegenerative diseases in children and in adults, characterized by visual and mental decline, motor disturbance, epilepsy and behavioral changes.,function:Acid protease active in intracellular protein breakdown. Involved in the pathogenesis of several diseases such as breast cancer and possibly Alzheimer disease.,polymorphism:The Val-58 allele is significantly overrepresented in demented patients (11.8%) compared with non-demented controls (4.9%). Carriers of the Val-58 allele have a 3.1-fold increased risk for de



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#### **Background**

This gene encodes a member of the A1 family of peptidases. The encoded preproprotein is proteolytically processed to generate multiple protein products. These products include the cathepsin D light and heavy chains, which heterodimerize to form the mature enzyme. This enzyme exhibits pepsin-like activity and plays a role in protein turnover and in the proteolytic activation of hormones and growth factors. Mutations in this gene play a causal role in neuronal ceroid lipofuscinosis-10 and may be involved in the pathogenesis of several other diseases, including breast cancer and possibly Alzheimer's disease. [provided by RefSeq, Nov 2015],

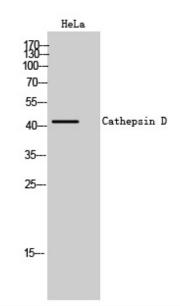
## matters needing attention

Avoid repeated freezing and thawing!

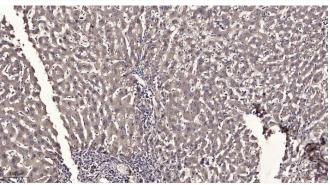
### **Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

### **Products Images**



Western Blot analysis of HeLa cells using Cathepsin D Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).