Best Tools for immunology Research

# Cathepsin D Polyclonal Antibody

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| **Catalog No :** | YT0681 |
| **Reactivity :** | Human;Rat;Mouse; |
| **Applications :** | WB;IHC;IF;ELISA |
| **Target :** | Cathepsin D |
| **Fields :** | >>Sphingolipid signaling pathway;>>Autophagy - animal;>>Lysosome;>>Apoptosis;>>Estrogen signaling pathway;>>Tuberculosis;>>Diabetic cardiomyopathy |
| **Gene Name :** | CTSD |
| **Protein Name :** | Cathepsin D |
| **Human Gene Id :** | 1509 |
| **Human Swiss Prot No :** | P07339 |
| **Mouse Swiss Prot No :** | P18242 |
| **Immunogen :** | The antiserum was produced against synthesized peptide derived from human Cathepsin D. AA range:296-345 |
| **Specificity :** | Cathepsin D Polyclonal Antibody detects endogenous levels of Cathepsin D protein. |
| **Formulation :** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Source :** | Polyclonal, Rabbit,IgG |
| **Dilution :** | WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200 |
| **Purification :** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Concentration :** | 1 mg/ml |

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| **Storage Stability :** | -15°C to -25°C/1 year(Do not lower than -25°C) |
| **Observed Band :** | 46,30kD |
| **Cell Pathway :** | Lysosome; |
| **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], |
| **Function :** | 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 |
| **Subcellular Location :** | 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). . |
| **Expression :** | Expressed in the aorta extracellular space (at protein level) (PubMed:20551380). Expressed in liver (at protein level) (PubMed:1426530). |
| **Sort :** | 3225 |
| **No4 :** | 1 |
| **Host :** | Rabbit |
| **Modifications :** | Unmodified |

# Products Images