

Product Name: Cleaved-Cathepsin D HC (L169) Rabbit Polyclonal Antibody Catalog #: APRab08974

For research use only.

Summary

Description Rabbit polyclonal Antibody

Host Rabbit
Application WB,ELISA

Reactivity Human,Rat,Mouse
Conjugation Unconjugated
Modification Unmodified

Isotype IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio WB 1:500-1:2000,ELISA 1:20000-1:40000

Molecular Weight 27kDa

Antigen Information

Gene Name CTSD

Alternative Names CTSD; CPSD; Cathepsin D

 Gene ID
 1509.0

 SwissProt ID
 P07339

The antiserum was produced against synthesized peptide derived from human CATD. AA **Immunogen**

range:150-199

Background

This gene encodes a member of the A1 family of peptidases. The encoded preproprotein is proteolytically processed to

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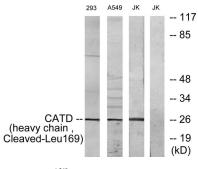


generate multiple protein products. These products include the cathepsin D light and heavy chains, which heterodimerize to form the mature enzyme. This enzyme exhibits pepsin-like activity and plays a role in protein turnover and in the proteolytic activation of hormones and growth factors. Mutations 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],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 developing AD than non-carriers., similarity:Belongs to the peptidase A1 family., subcellular location:Identified by mass spectrometry in melanosome fractions from stage I to stage IV., subunit:Consists of a light chain and a heavy chain.,

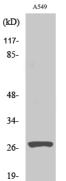
Research Area

Lysosome;

Image Data



Western blot analysis of lysates from 293, A549, and JurKat cells, treated with etoposide 25uM 1h, using CATD (heavy chain, Cleaved-Leu169) Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using Cleaved-Cathepsin D HC (L169) Polyclonal Antibody

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