

Cleaved Cathepsin D HC (Leu169) Rabbit pAb

CatalogNo: YC0037 Orthogonal Validated 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, ELISA

MW

- 27kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

ELISA 1:40000

Not yet tested in other applications.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human CATD. AA range:150-199

Specificity Cleaved-Cathepsin D HC (L169) Polyclonal Antibody detects endogenous levels of fragment of activated Cathepsin D HC protein resulting from cleavage adjacent to L169.

Target Information

Gene name CTSD
Protein Name Cathepsin D

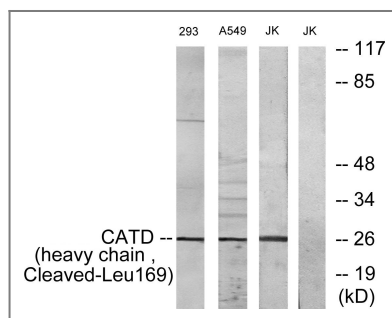
Organism	Gene ID	UniProt ID
Human	1509 ;	P07339 ;
Mouse		P18242 ;

Cellular Localization 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).

Tissue specificity Expressed in the aorta extracellular space (at protein level) (PubMed:20551380). Expressed in liver (at protein level) (PubMed:1426530).

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 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.

Validation 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.

Contact information

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D HC (Leu169)
Rabbit pAb**

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