Cleaved Cathepsin D LC (Gly65) Rabbit pAb

CatalogNo: YC0038 **Orthogonal Validated**

Key Features

Host Species	Reactivity	Applications
• Rabbit	• Human,Monkey	• WB,ELISA

MW	Isotype
• 17kD (Observed)	• 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 1:20000
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:46-95
Specificity	Cleaved-Cathepsin D LC (G65) Polyclonal Antibody detects endogenous levels of fragment of activated Cathepsin D LC protein resulting from cleavage adjacent to G65.

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

Contact information

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Please scan the QR code to access additional product information: **Cleaved Cathepsin D LC (Gly65) Rabbit pAb**