

Product Name: Cathepsin D (11F19) Rabbit Monoclonal Antibody
Catalog #: AMRe08010

Summary

Production Name	Cathepsin D (11F19) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Purification	Affinity purification

Immunogen

Gene Name	CTSD
Alternative Names	CATD; Cathepsin D; Cathepsin D heavy chain; Cathepsin D light chain; ceroid-lipofuscinosis, neuronal 10; CLN10; CPSD; CTSD; lysosomal aspartyl peptidase; lysosomal aspartyl protease; MGC2311
Gene ID	1509.0
SwissProt ID	P07339.

Application

Dilution Ratio	WB 1:500-1:2000
Molecular Weight	45kDa

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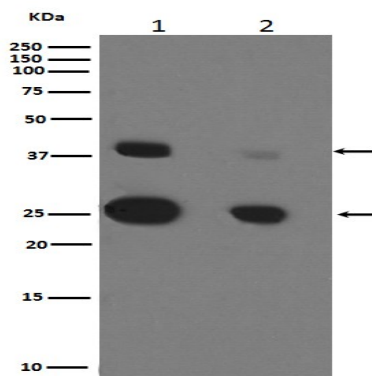


Background

This gene encodes a lysosomal aspartyl protease composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. This proteinase, which is a member of the peptidase C1 family, has a specificity similar to but narrower than that of pepsin A. Transcription of this gene is initiated from several sites, including one which is a start site for an estrogen-regulated transcript. Mutations in this gene are involved in the pathogenesis of several diseases, including breast cancer and possibly Alzheimer disease. Acid protease active in intracellular protein breakdown. Plays a role in APP processing following cleavage and activation by ADAM30 which leads to APP degradation (PubMed:27333034). Involved in the pathogenesis of several diseases such as breast cancer and possibly Alzheimer disease.

Research Area

Image Data



Western blot analysis of Cathepsin D expression in (1)MCF-7 cell lysate;(2)SKBR-3 cell lysate.

Note

For research use only.