

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

For research use only.

Summary

Description	Recombinant rabbit monoclonal antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,IF-P
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Concentration	0.5mg/ml. The concentration of this product may be batch-dependent.
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
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

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:50-1:200,ICC/IF 1:20-1:50,IF-P 1:50-1:200
Molecular Weight	45kDa

Antigen Information

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
Immunogen	A synthetic peptide of human Cathepsin D

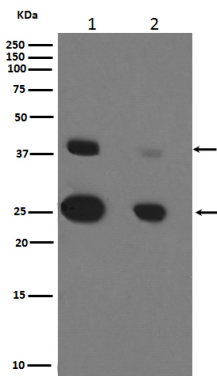
Background

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

Neuroscience; Cell Adhesion Proteins; Membrane Proteins; Signal Transduction; Cytoskeleton / ECM; Extracellular Matrix; ECM Enzymes; Cancer; Cell Biology; Proteolysis / Ubiquitin; Proteolytic enzymes; Cysteine protease; Cathepsins; Neuroscience; Diseases

Image Data



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