

Product datasheet

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ARG41157 anti-Cathepsin D antibody

Package: 100 μg Store at: -20°C

Summary

Product Description Goat Polyclonal antibody recognizes Cathepsin D

Tested Reactivity Hu, Ms, Rat, Dog, Mk

Tested Application ICC/IF, IHC-Fr, IHC-P, WB

Host Goat

Clonality Polyclonal

Isotype IgG

Target Name Cathepsin D

Species Human

Immunogen Purified recombinant peptide within aa. 275 to the C-terminus of Human Cathepsin D.

Conjugation Un-conjugated

Alternate Names CPSD; EC 3.4.23.5; HEL-S-130P; CLN10; Cathepsin D

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50 - 1:200
	IHC-Fr	1:50 - 1:200
	IHC-P	1:50 - 1:200
	WB	1:250 - 1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Human (Jurkat, HT1080, HUH, MDA-MB-231, ARPE19, SH-SY5Y), Dog (MDCK) and Monkey (COS-7) whole cell lysates.	

Properties

Form	Liquid	
Purification	Affinity purification with immunogen.	
Buffer	PBS, 0.05% Sodium azide and 20% Glycerol.	
Preservative	0.05% Sodium azide	
Stabilizer	20% Glycerol	
Concentration	3 mg/ml	
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw	

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol CTSD

Gene Full Name 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. [provided by RefSeq, Jul 2008]

Function Acid protease active in intracellular protein breakdown. Involved in the pathogenesis of several

diseases such as breast cancer and possibly Alzheimer disease. [UniProt]

Calculated Mw 45 kDa

PTM N- and O-glycosylated.

Undergoes proteolytic cleavage and activation by ADAM30.

As well as the major heavy chain which starts at Leu-169, 2 minor forms starting at Gly-170 and Gly-171 have been identified (PubMed:1426530). An additional form starting at Ala-168 has also been identified

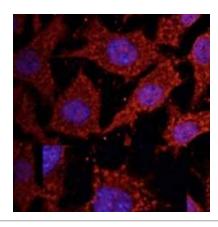
(PubMed:27333034). [UniProt]

Cellular Localization Lysosome. Melanosome. Secreted, extracellular space. Note=Identified by mass spectrometry in

melanosome fractions from stage I to stage IV. In aortic samples, detected as an extracellular protein

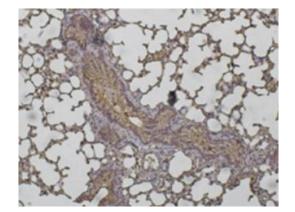
loosely bound to the matrix (PubMed:20551380). [UniProt]

Images



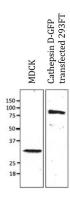
ARG41157 anti-Cathepsin D antibody ICC/IF image

Immunofluorescence: NIH/3T3 cells were fixed with methanol and permeabilized with 0.1% saponin. Cells were stained with ARG41157 anti-Cathepsin D antibody at 1:100 dilution.



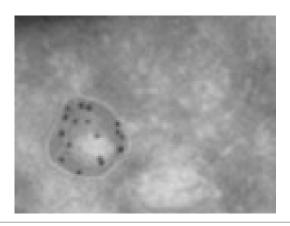
ARG41157 anti-Cathepsin D antibody IHC-P image

Immunohistochemistry: Paraformaldehyde-fixed and paraffinembedded Mouse lung tissue stained with ARG41157 anti-Cathepsin D antibody at 1:200 dilution.



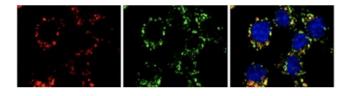
ARG41157 anti-Cathepsin D antibody WB image

Western blot: 100 ug of MDCK cell lysate and 30 ug of transfected 293FT cell lysate stained with ARG41157 anti-Cathepsin D antibody at 1:500 dilution.



ARG41157 anti-Cathepsin D antibody EM image

Electron microscopy: Immunogold labeling using melanocytes and ARG41157 anti-Cathepsin D antibody.



ARG41157 anti-Cathepsin D antibody ICC/IF image

Immunofluorescence: Raw264.7 cells were fixed with PFA and permeabilized with 0.05% saponin. Cells were stained with ARG41157 anti-Cathepsin D antibody (red) at 1:100 dilution. LAMP2 staining (green). nuclear staining (blue).