

## ARG55566 anti-Cathepsin D antibody

Package: 100 µl, 50 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes Cathepsin D
Tested Reactivity	Hu
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Cathepsin D
Species	Human
Immunogen	KLH-conjugated synthetic peptide from 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	1:25
	IHC-P	1:25
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

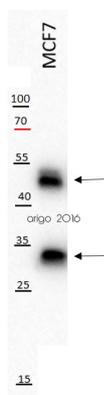
### Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
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 or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

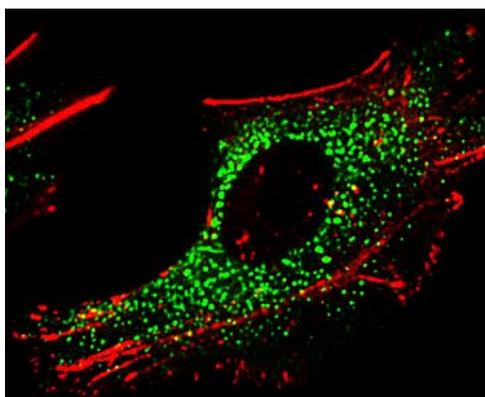
Database links	<a href="#">GeneID: 1509 Human</a> <a href="#">Swiss-port # P07339 Human</a>
Gene Symbol	CTSD
Gene Full Name	cathepsin D
Background	This gene encodes a lysosomal aspartyl protease composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. 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]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Neuroscience antibody; Signaling Transduction antibody
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).
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).

## Images



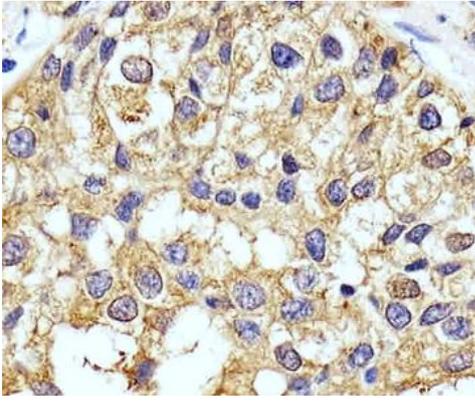
ARG55566 anti-Cathepsin D antibody WB image

Western blot: 20 µg of MCF7 cell lysates stained with ARG55566 anti-Cathepsin D antibody at 1:1000 dilution.



ARG55566 anti-Cathepsin D antibody ICC/IF image

Immunofluorescence: HepG2 cells stained with ARG55566 anti-Cathepsin D antibody (green) at 1:25 dilution. Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).



ARG55566 anti-Cathepsin D antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human breast carcinoma section stained with ARG55566 anti-Cathepsin D antibody at 1:25 dilution.