

ARG41249 anti-Cathepsin D antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Cathepsin D
Tested Reactivity	Hu, Ms
Tested Application	FACS, ICC/IF, IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Cathepsin D
Species	Human
Immunogen	Synthetic peptide 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
	FACS	1:20
	ICC/IF	1:50
	IHC-P	1:50
	IP	1:20
	WB	1:2000

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

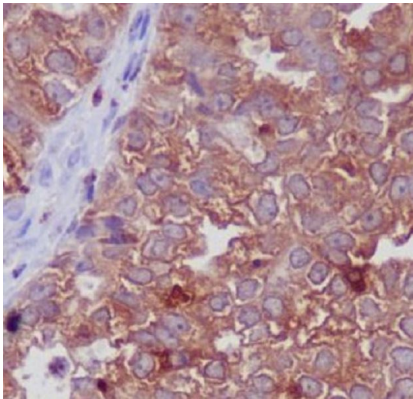
Properties

Form	Liquid
Purification	Affinity purified
Buffer	50 mM Tris-Glycine (pH 7.4), 150 mM NaCl, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.
Preservative	0.01% Sodium azide
Stabilizer	40% Glycerol and 0.05% BSA
Concentration	Batch dependent
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 cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

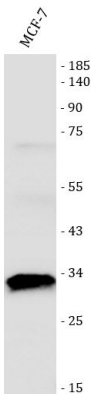
Gene Symbol	CTSD
Gene Full Name	cathepsin D
Background	This gene encodes a lysosomal aspartyl protease composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. This proteinase, which is a member of the peptidase C1 family, has a specificity similar 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



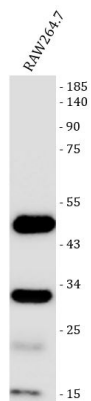
ARG41249 anti-Cathepsin D antibody IHC-P image

Immunohistochemistry: Human ovarian cancer stained with ARG41249 anti-Cathepsin D antibody.



ARG41249 anti-Cathepsin D antibody WB image

Western blot: MCF-7 stained with ARG41249 anti-Cathepsin D antibody.



ARG41249 anti-Cathepsin D antibody WB image

Western blot: RAW264.7 stained with ARG41249 anti-Cathepsin D antibody.