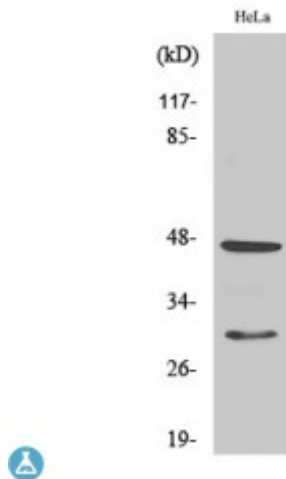


Anti-Cathepsin D antibody



Description	Rabbit polyclonal to Cathepsin D.
Model	STJ92046
Host	Rabbit
Reactivity	Human
Applications	ELISA, IHC, WB
Immunogen	Synthesized peptide derived from human Cathepsin- α D.
Immunogen Region	Internal
Gene ID	1509
Gene Symbol	CTSD
Dilution range	WB 1:500-1:2000IHC 1:100-1:300ELISA 1:40000
Specificity	Cathepsin- α D Polyclonal Antibody detects endogenous levels of Cathepsin- α D protein.
Tissue Specificity	Expressed in the aorta extracellular space (at protein level) . Expressed in liver (at protein level) .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Cathepsin D Cathepsin D light chain Cathepsin D heavy chain
Molecular Weight	46/30 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:2529OMIM:116840
Alternative Names	Cathepsin D Cathepsin D light chain Cathepsin D heavy chain
Function	Acid protease active in intracellular protein breakdown. Plays a role in APP processing following cleavage and activation by ADAM30 which leads to APP degradation . Involved in the pathogenesis of several diseases such as breast cancer and possibly Alzheimer disease.
Cellular Localization	Lysosome. Melanosome. Secreted, extracellular space. 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 .
Post-translational Modifications	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 . An additional form starting at Ala-168 has also been identified .

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