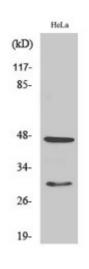


## **Anti-Cathepsin D antibody**



**Description** Rabbit polyclonal to Cathepsin D.

Model STJ92046

**Host** Rabbit

**Reactivity** Human

**Applications** ELISA, IHC, WB

**Immunogen** Synthesized peptide derived from human Cathepsin D.

Immunogen Region Internal

**Gene ID** <u>1509</u>

Gene Symbol CTSD

**Dilution range** WB 1:500-1:2000IHC 1:100-1:300ELISA 1:40000

Specificity Cathepsin D Polyclonal Antibody detects endogenous levels of

Cathepsin D protein.

**Tissue Specificity** Expressed in the aorta extrcellular 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 <u>HGNC:2529OMIM:116840</u>

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** 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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**Modifications** 

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