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Anti-Cathepsin V Antibody

Catalog # AP59529

Product Information

Application	WB, IHC, IF/IC
Primary Accession	O60911
Reactivity	Human, Mouse, Rat, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37329

Additional Information

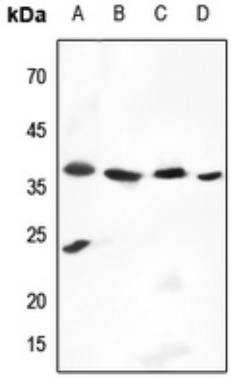
Gene ID	1515
Other Names	CATL2; CTSL2; CTSU; Cathepsin L2; Cathepsin U; Cathepsin V
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Cathepsin V. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

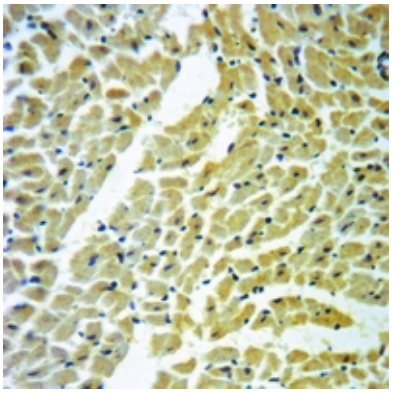
Name	CTSV
Synonyms	CATL2, CTSL2, CTSU
Function	Cysteine protease. May have an important role in corneal physiology.
Cellular Location	Lysosome.
Tissue Location	Predominantly expressed in the thymus and testis. Also expressed in corneal epithelium, and to a lesser extent in conjunctival epithelium and skin.

Images

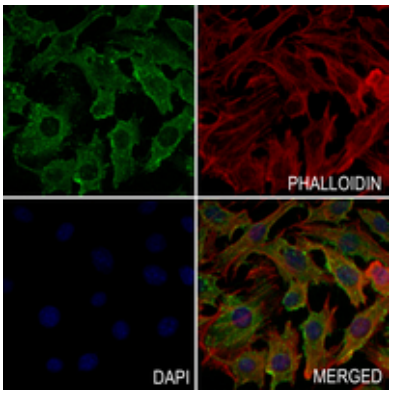
Western blot analysis of Cathepsin V expression in mouse lung (A), mouse testis (B), rat lung (C), rat testis (D) whole



cell lysates. (Predicted band size: 37 kD; Observed band size: 37; 24 kD)



Immunohistochemical analysis of Cathepsin V staining in rat heart formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Cathepsin V staining in NIH3T3 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.