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Anti-Cathepsin A 32k Antibody

Catalog # AP51127

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P10619
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	54466

Additional Information

Gene ID	5476
Other Names	PPGB; Lysosomal protective protein; Carboxypeptidase C; Carboxypeptidase L; Cathepsin A; Protective protein cathepsin A; PPCA; Protective protein for beta-galactosidase
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Cathepsin A 32k. 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

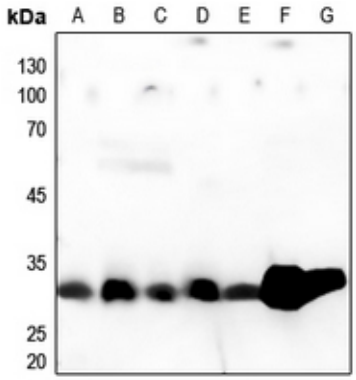
Protein Information

Name	CTSA (HGNC:9251)
Synonyms	PPGB
Function	Protective protein appears to be essential for both the activity of beta-galactosidase and neuraminidase, it associates with these enzymes and exerts a protective function necessary for their stability and activity (PubMed:1907282). Also functions as an activator of the sialidase NEU1 (PubMed:37205763). This protein is also a carboxypeptidase and can deamidate tachykinins (PubMed:1694176, PubMed:1756715, PubMed:1907282).
Cellular Location	Lysosome.

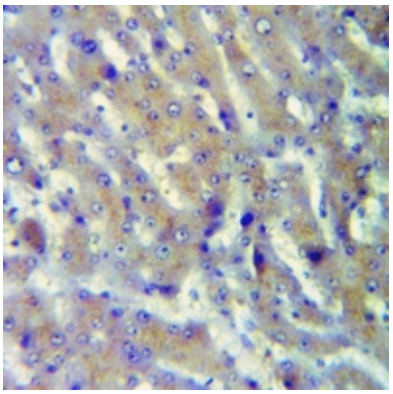
References

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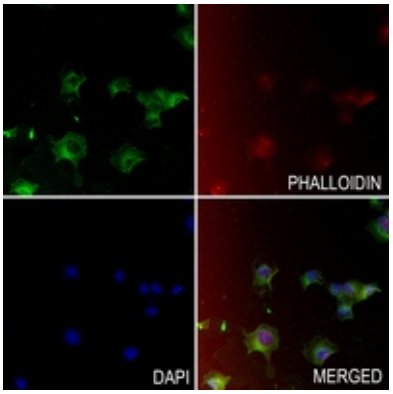
Images



Western blot analysis of Cathepsin A 32k expression in HEK293T (A), Hela (B), U2OS (C), mouse kidney (D), mouse liver (E), rat kidney (F), rat liver (G) whole cell lysates. (Predicted band size: 54 kD; Observed band size: 32 kD)



Immunohistochemical analysis of Cathepsin A 32k staining in human liver cancer 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 A 32k staining in PANC1 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).

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