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Research Use Only. Not for diagnostic or therapeutic use.

EB11975 - Goat Anti-Cathepsin B Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: CTSB, cathepsin B, APPS, CPSB, APP secretase, amyloid precursor

protein secretase, cathepsin B1, cysteine protease

Official Symbol: CTSB

Accession Number(s): NP_001899.1

Human GeneID(s): 1508

Important Comments: Reported variants represent identical protein: NP_680091.1,

NP_680090.1, NP_680092.1, NP_001899.1, NP_680093.1.

Immunogen

Peptide with sequence SDRICIHTNAHVSVE, from the internal region of the protein sequence according to NP_001899.1.

Please note the peptide is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:64000.

Western blot: Approx 35kDa band observed in lysates of cell line HepG2 and in Human Lung, Human Colo-rectal carcinoma and Human Brain Glio-Blastoma cancer lysates (calculated MW of 37.8xkDa according to NP_001899.1). Recommended concentration: 0.5-2µg/ml. Primary incubation 1 hour at room temperature.

IHC: Paraffin embedded Human Prostate. Recommended concentration: 5µg/ml.

Immunofluorescence: Strong expression of the protein seen in the cytoplasm/ vesicles of HeLa cells. Recommended concentration: 10µg/ml.

Flow Cytometry: Flow cytometric analysis of HeLa cells. Recommended concentration: 10ug/ml.

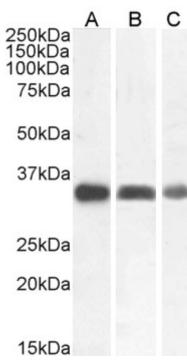
Species Reactivity

Tested: Human

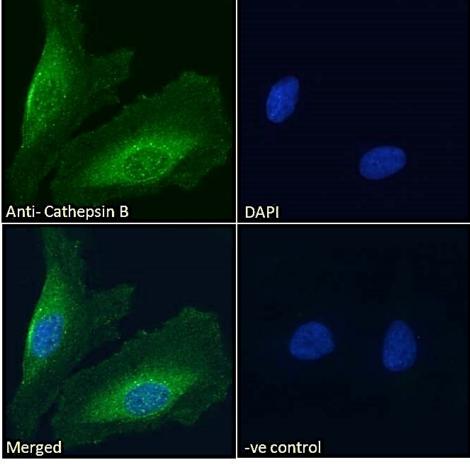
Expected from sequence similarity: Human



EB11975 (1µg/ml) staining of HepG2 cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

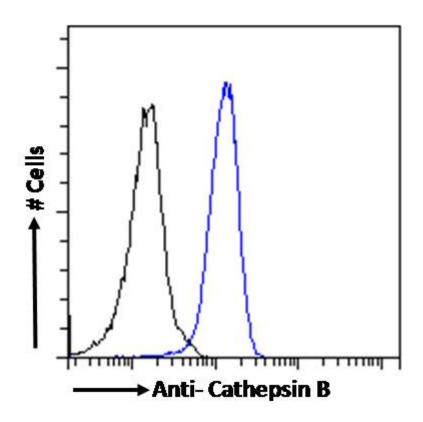


EB11975 (1μg/ml) staining of Human Lung (A) and HCORC (B) and (0.5ug/ml) HCBGLC (C) lysate (35μg protein in RIPA buffer). Detected by chemiluminescence.



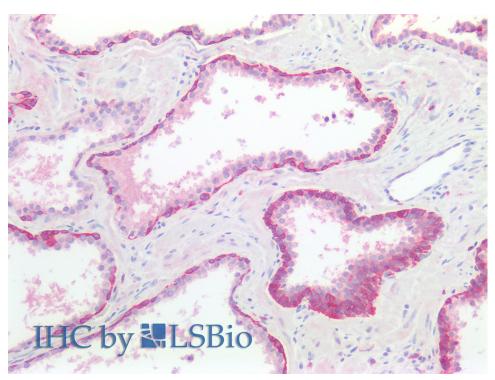
EB11975 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton.

Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic/vesicle staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB11975 Flow cytometric analysis of paraformaldehyde fixed HeLa cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control:

Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



EB11975 ($5\mu g/ml$) staining of paraffin embedded Human Prostate. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.