



## UK Office

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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 SDRICHTNAHVSVE, 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 Glioblastoma cancer lysates (calculated MW of 37.8kDa 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.

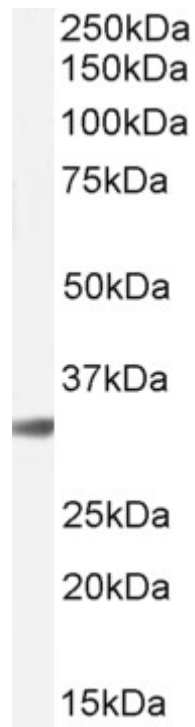
**Immunofluorescence:** Strong expression of the protein seen in the cytoplasm/ vesicles of HeLa cells. Recommended concentration: 10µg/ml.

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

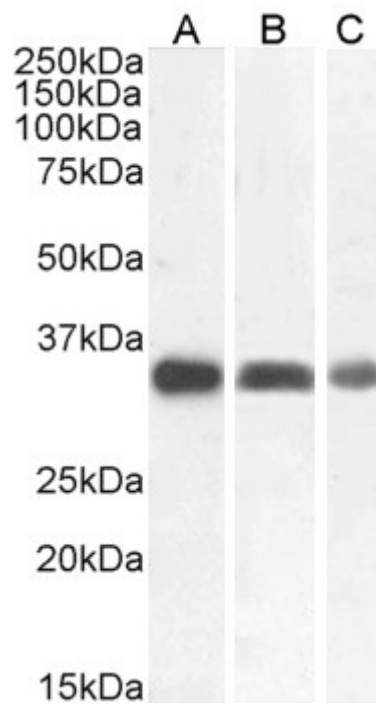
### Species Reactivity

**Tested:** Human

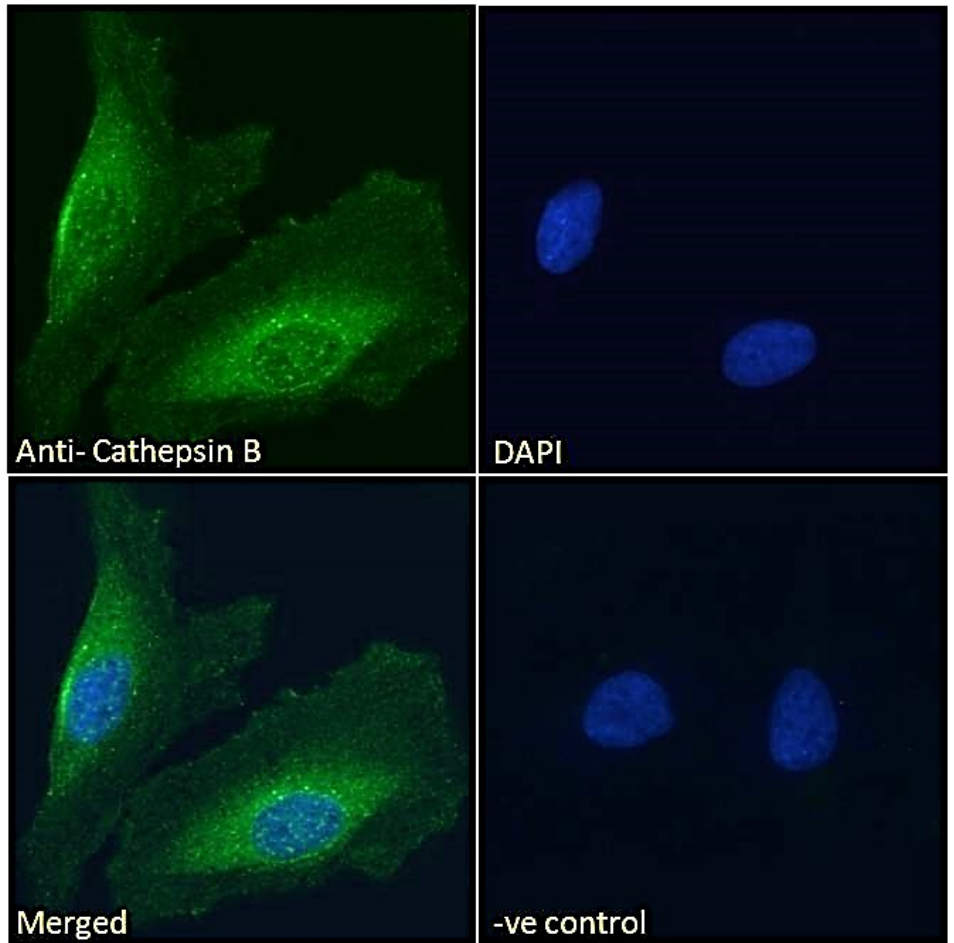
**Expected from sequence similarity:** Human



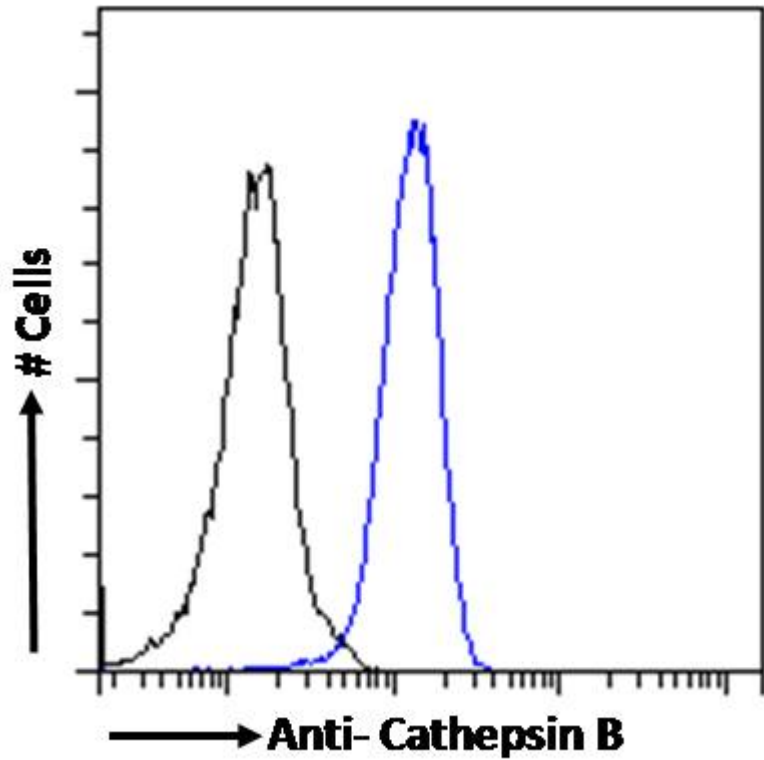
EB11975 (1 $\mu$ g/ml) staining of HepG2 cell lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



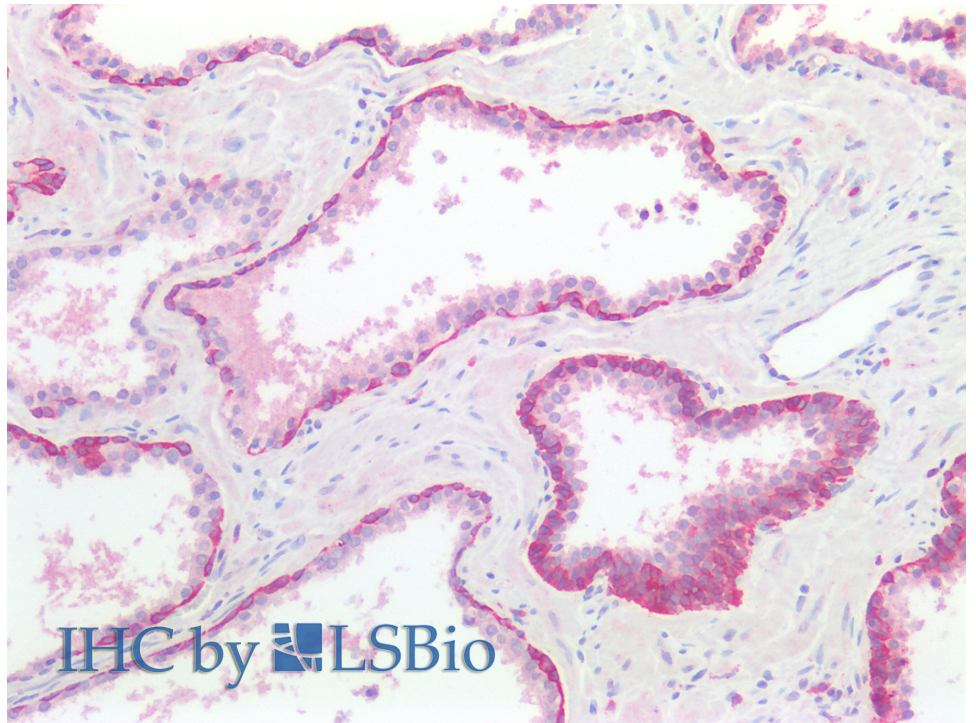
EB11975 (1 $\mu$ g/ml) staining of Human Lung (A) and HCORC (B) and (0.5 $\mu$ g/ml) HCBGLC (C) lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



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.