

CTSB

Reactivity:Human Mouse Rat

Tested applications:WB IHC

Recommended Dilution:WB 1:500 - 1:2000 IHC 1:50 - 1:200

Calculated MW:38kDa

Observed MW:Refer to Figures

Immunogen:

Recombinant protein of human CTSB

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

b

Synonym:

CTSB;APPS;CPSB ; Cathepsin B

Catalog #:A0967

Antibody Type:

Polyclonal Antibody

Species:Rabbit

Gene ID:1508

Isotype:IgG

Swiss Prot:P07858

Purity:Affinity purification

For research use only.

Background:

Cathepsin B (CSTB), part of the papain family of proteases, is a widely expressed lysosomal cysteine endopeptidase (1,2). Like other family members, cathepsin B is produced from a larger precursor form, pro-cathepsin B, which in its glycosylated form runs at approximately 40 kDa on SDS-PAGE, and is then activated by cleavage of a 62-amino acid pro-peptide. High levels of cathepsin B are found in macrophages and osteoclasts, as well as various types of cancer cells, including lung, colon, prostate, breast, and stomach. In addition, expression of cathepsin B has been associated with multiple sclerosis (3), rheumatoid arthritis (4), and pancreatitis (5). While generally localized to lysosomes, in cancer alterations can lead to its secretion (6). Its role in tumor progression is thought to involve promotion of basement membrane degradation, invasion and metastasis (7,8). Expression can correlate with poor prognosis for a variety of forms of cancer (9-13).

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