

For Research Use Only

Cathepsin E Polyclonal antibody

Catalog Number: 25146-1-AP



Basic Information

Catalog Number:

25146-1-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG18484

GenBank Accession Number:

BC042537

GeneID (NCBI):

1510

UNIPROT ID:

P14091

Full Name:

cathepsin E

Calculated MW:

396 aa, 43 kDa

Observed MW:

43-48 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:2000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : Calu-3 cells, mouse stomach tissue, rat stomach tissue

Background Information

Cathepsin E (CTSE) is an aspartic protease and a member of the peptidase A1 family of proteases, along with pepsin A and cathepsin D (CTSD) (PMID: 31582345). Cathepsin E is essential for degradation of these lysosomal membrane proteins, and that its deficiency is implicated in the development of a new form of lysosomal storage disorder associated with the elevation of lysosomal pH (PMID: 17095504). It associates with lysosomal and endosomal pathways participating actively in immune response regulation. Cathepsin E specifically induces growth arrest and apoptosis in human prostate cancer cell lines (PMID: 20482316).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

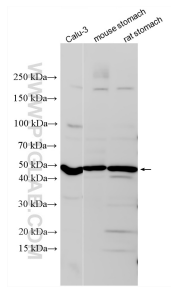
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 25146-1-AP (Cathepsin E antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.