

Product Name: Cathepsin E Rabbit Polyclonal Antibody**Catalog #: APRab08017**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
Molecular Weight	48kDa

Antigen Information

Gene Name	CTSE
Alternative Names	CTSE; Cathepsin E
Gene ID	1510.0
SwissProt ID	P14091
Immunogen	The antiserum was produced against synthesized peptide derived from human Cathepsin E. AA range:243-292

Background

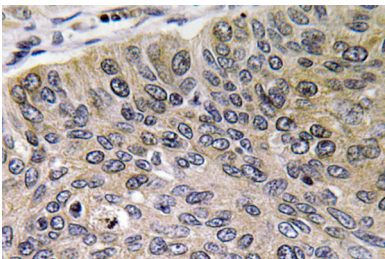
This gene encodes a member of the A1 family of peptidases. Alternative splicing of this gene results in multiple transcript

variants. At least one of these variants encodes a preproprotein that is proteolytically processed to generate the mature enzyme. This enzyme, an aspartic endopeptidase, may be involved in antigen processing and the maturation of secretory proteins. Elevated expression of this gene has been observed in neurodegeneration. [provided by RefSeq, Nov 2015], catalytic activity: Similar to cathepsin D, but slightly broader specificity., function: May have a role in immune function. Probably involved in the processing of antigenic peptides during MHC class II-mediated antigen presentation. May play a role in activation-induced lymphocyte depletion in the thymus, and in neuronal degeneration and glial cell activation in the brain., PTM: Glycosylated. The nature of the carbohydrate chain varies between cell types. In fibroblasts, the proenzyme contains a high mannose-type oligosaccharide, while the mature enzyme contains a complex-type oligosaccharide. In erythrocyte membranes, both the proenzyme and mature enzyme contain a complex-type oligosaccharide., PTM: Two forms are produced by autocatalytic cleavage, form I begins at Ile-54, form II begins at Thr-57., similarity: Belongs to the peptidase A1 family., subcellular location: The proenzyme is localized to the endoplasmic reticulum and Golgi apparatus, while the mature enzyme is localized to the endosome., subunit: Homodimer; disulfide-linked., tissue specificity: Expressed abundantly in the stomach, the Clara cells of the lung and activated B-lymphocytes, and at lower levels in lymph nodes, skin and spleen. Not expressed in resting B-lymphocytes.,

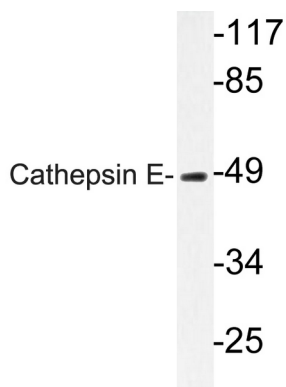
Research Area

Lysosome;

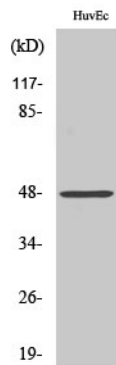
Image Data



Immunohistochemistry analysis of Cathepsin E antibody in paraffin-embedded human lung carcinoma tissue.



Western blot analysis of lysate from HUVEC cells, using Cathepsin E antibody.



Western Blot analysis of various cells using Cathepsin E Polyclonal Antibody