



20150120ML

Anti-Human Cathepsin E (#4F50)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

Cat.-no.:	101-M248
Size:	100 µg
Lot. No.:	According to product label

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse) immunized with human recombinant protein of Cathepsin-E.

Target Background

Synonyms (Target):	CTSE; CATE
---------------------------	------------

Cathepsin E is an intracellular aspartic protease of the pepsin family. Unlike Cathepsin D, another member of the same family and a lysosomal protease with relatively ubiquitous distribution, Cathepsin E is not a lysosomal enzyme and has a limited cell and tissue distribution. However, both Cathepsin D and E play an important role in the degradation of proteins, the generation of bioactive proteins, and antigen processing. Both enzymes are efficient in cleaving Swedish mutant of amyloid precursor protein (APP) at the β site but show almost no reactivity with wildtype APP. Human Cathepsin E is synthesized as a precursor protein, consisting of a signal peptide (aa 1-17), a propeptide (aa 18-53), and a mature chain (aa 54-396).

Database References Target

Protein RefSeq:	NP_001901
Uniprot ID:	P14091
mRNA RefSeq:	NM_001910

Product Specifications

Host	Mouse
Reactivity against	Human
Clonality	Monoclonal Antibody
Clone	(#4F50)
Isotype	IgG2
Purification	Protein G chromatography
Antigen	recombinant human Cathepsin-E
Formulation	lyophilized
Reconstitution buffer	PBS (sterile)

Reconstitution: Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

Remarks: This antibody was selected for its ability to detect Cathepsin E protein.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

Applications

The antibody can be used within the following applications:

WB

Recommended usage:

Western Blot: 1:500 - 1:1000

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!