CATL1 (heavy chain, Cleaved-Ala114) mouse mAb

Catalog No	YP-mAb-02304
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	CTSL1 CTSL
Protein Name	CATL1 (heavy chain, Cleaved-Ala114)
Immunogen	Synthesized peptide derived from human CATL1 (heavy chain, Cleaved-Ala114)
Specificity	This antibody detects endogenous levels of Human CATL1 (heavy chain, Cleaved-Ala114, protein was cleaved amino acid sequence between 113-114)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Cathepsin L1 (EC 3.4.22.15;Major excreted protein;MEP) [Cleaved into: Cathepsin L1 heavy chain; Cathepsin L1 light chain]
Observed Band	25 37kD
Cell Pathway	Lysosome . Apical cell membrane ; Peripheral membrane protein ; Extracellular side . Cytoplasmic vesicle, secretory vesicle, chromaffin granule . Secreted, extracellular space . Secreted . Localizes to the apical membrane of thyroid epithelial cells. Released at extracellular space by activated dendritic cells and macrophages. .; [Isoform 2]: Nucleus . Translation initiation at downstream start sites allows the synthesis of isoforms that are devoid of a signal peptide and do not transit through the endoplasmic reticulum to localize to the nucleus (PubMed:15099520). Nuclear location varies during the cell cycle, with higher levels during S phase (PubMed:15099520). .
Tissue Specificity	
Function	proteolysis,
Background	catalytic activity:Specificity close to that of papain. As compared to cathepsin B, cathepsin L exhibits higher activity toward protein substrates, but has little activity on Z-Arg-Arg-NHMec, and no peptidyl-dipeptidase activity.,function:Important for the overall degradation of proteins in lysosomes.,similarity:Belongs to the peptidase C1 family.,subunit:Dimer of a heavy and a light chain linked by disulfide

	bonds.,
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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