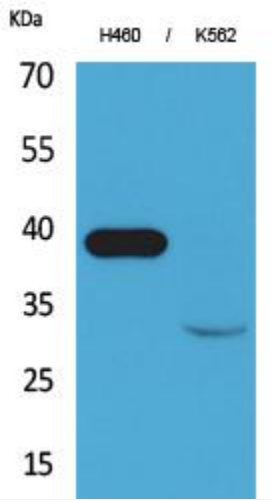
Cathepsin L Monoclonal Antibody

Catalog No	YP-mAb-02853
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	CTSL1
Immunogen	Synthesized peptide derived from the Internal region of human Cathepsin L.
Specificity	Cathepsin L Monoclonal Antibody detects endogenous levels of Cathepsin L protein.
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 L;cathepsin L1;CATL;CTSL;CTSL1;FLJ31037;Major excreted protein; MEP
Observed Band	36-39 kDa/29 kDa
Calculated Molecular Weight	38 kDa
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	Cartilage,Colon endothelium,Liver,Plasma,Prostate,
Function	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.,
Background	The protein encoded by this gene is a lysosomal cysteine proteinase that plays a major role in intracellular protein catabolism. Its substrates include collagen and elastin, as well as alpha-1 protease inhibitor, a major controlling element of neutrophil elastase activity. The encoded protein has been implicated in several pathologic processes, including myofibril necrosis in myopathies and in myocardial ischemia, and in the renal tubular response to proteinuria. This protein, which is a member of the peptidase C1 family, is a dimer composed of disulfide-linked heavy and light chains, both produced from a single protein precursor. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Apr 2012],
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.

Products Images



Western Blot analysis of various cells using Cathepsin L Monoclonal Antibody