

Anti-Cathepsin S Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

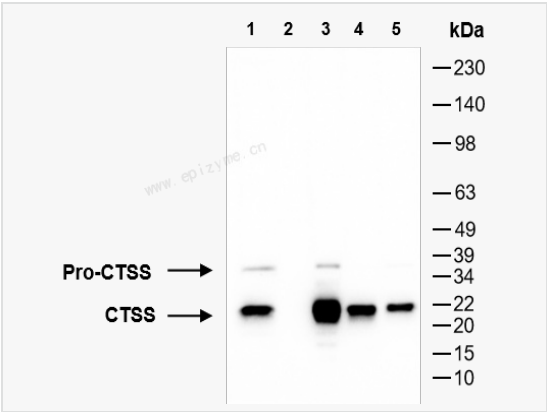
Catalog # M016163

Product Information

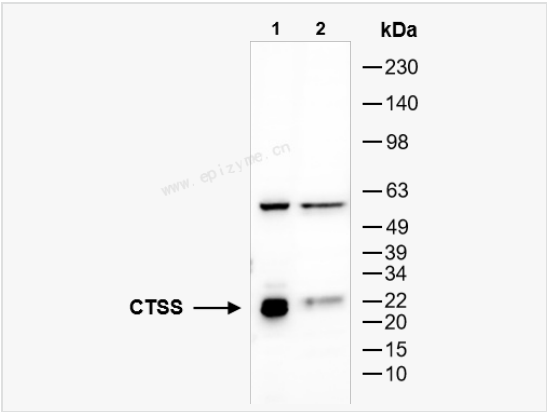
Application	WB, ELISA
Reactivity	Human, Mouse
Dilution	WB 1:1,000~1:2,000
Host	Mouse
Clonality	Monoclonal
Clone No.	47R74T72
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human Cathepsin S
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Cathepsin S Mouse mAb [47R74T72] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	Cats; CTSS; Cathepsin S.
Calculated MW	Calculated MW: 25, 37 kDa; Observed MW: 22, 37 kDa
Uniprot ID	P25774
Gene ID	1520
Background	The preproprotein encoded by this gene, a member of the peptidase C1 family, is a lysosomal cysteine proteinase that participates in the degradation of antigenic proteins to peptides for presentation on MHC class II molecules. The mature protein cleaves the invariant chain of MHC class II molecules in endolysosomal compartments and enables the formation of antigen-MHC class II complexes and the proper display of extracellular antigenic peptides by MHC-II. The mature protein also functions as an elastase over a broad pH range. When secreted from cells, this protein can remodel components of the extracellular matrix such as elastin, collagen, and fibronectin. This gene is implicated in the pathology of many inflammatory and autoimmune diseases and, given its elastase activity, plays a significant role in some pulmonary diseases. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, May 2020]
Cellular Location	Lysosome. Secreted. Cytoplasmic vesicle, phagosome.
Tissue Location	Tissue enhanced (Bone marrow, Lymphoid tissue). Expressed in monocyte and 182 other cell types or tissues.



Western Blot - Anti-Cathepsin S Mouse mAb [47R74T72]
All lanes: M016163 at 1:1,000 dilution
Lane 1: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 2: MCF-7 (human breast adenocarcinoma epithelial cell) whole cell lysates
Lane 3: U87 (Human malignant glioblastoma epithelial cell) whole cell lysates
Lane 4: THP-1 (Human monocytic leukemia cell) whole cell lysates
Lane 5: K562 (Human chronic myeloid leukemia cell) whole cell lysates
Lysates/proteins at 20 µg per lane.
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP conjugated (LF101) with dilution of 1:2,000
Predicted band size: 25, 37 kDa
Observed band size: 22, 37 kDa
Developed using the ECL technique (Cat. No. SQ201).



Western Blot - Anti-Cathepsin S Mouse mAb [47R74T72]
All lanes: M016163 at 1:1,000 dilution
Lane 1: Mouse liver whole tissue lysates
Lane 2: Mouse muscle whole tissue lysates
Lysates/proteins at 20 µg per lane.
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP conjugated (LF101) with dilution of 1:2,000
Predicted band size: 25, 37 kDa
Observed band size: 22 kDa
Developed using the ECL technique (Cat. No. SQ201).