

CTSL1 monoclonal antibody, clone 33/2

Catalog # MAB1432

Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against native CTSL1.
Immunogen	Native purified human CTSL1.
Host	Mouse
Theoretical MW (kDa)	37.5
Reactivity	Human, Mouse, Rat
Form	Lyophilized
Purification	Affinity purification
Isotype	IgG1
Recommend Usage	Western Blot (2 ug/mL) Immunohistochemistry (Frozen sections) (4 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 1.2% sodium acetate (2 mg BSA, 0.01 mg sodium azide)
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with 1 mL of 1.2% sodium acetate or neutral PBS and concentration will be 100 ug/mL, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot
- Immunohistochemistry (Frozen sections)

Gene Info — CTSL1

Entrez GeneID [1514](#)

Gene Name CTSL1

Gene Alias CATL, CTSL, FLJ31037, MEP

Gene Description cathepsin L1

Omim ID [116880](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. At least two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq]

Other Designations OTTHUMP00000021601|OTTHUMP00000021602|OTTHUMP00000063566|cathepsin L|major excreted protein

Publication Reference

- [Cathepsin L is required for endothelial progenitor cell-induced neovascularization.](#)

Urbich C, Heeschen C, Aicher A, Sasaki K, Bruhl T, Farhadi MR, Vajkoczy P, Hofmann WK, Peters C, Pennacchio LA, Abolmaali ND, Chavakis E, Reinheckel T, Zeiher AM, Dimmeler S.

Nature Medicine 2005 Feb; 11(2):206.

Application: WB-Ce, WB-Tr, Human, HUVEC, EPC, CD14+ monocytes, Human microvascular endothelial cells

Pathway

- [Antigen processing and presentation](#)
- [Lysosome](#)