

Rabbit Anti-Mouse Cathepsin D Monoclonal Antibody

Cat. No. CAB11522RM **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Mouse Cathepsin D
Species	Mouse
Source	Rabbit
Antigen Description	Cathepsin D (CTSD) is a well known lysosomal aspartyl protease and is a member of the peptidase C1 family found in almost all cells and tissues of mammals. It has a specificity similar to but narrower than that of pepsin A. Cathepsin D plays an important role in the degradation of proteins, the generation of bioactive proteins, antigen processing, etc. Cathepsin D is an important regulator of apoptotic pathways in cells. It acts at different stage of intrinsic and extrinsic pathway of apoptosis, and can also induce apoptosis in presence of cytotoxic factors. However, on contrast, in certain studies an inhibitory role of CTSD in apoptosis was also reviewed. In addition, CTSD secreted from human prostate carcinoma cells are responsible for the generation of angiostatin, a potent endogenous inhibitor of angiogenesis, suggesting its contribution to the prevention of tumor growth and angiogenesis-dependent growth of metastases.
Specificity	Mouse Cathepsin D / CTSD. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA.
Immunogen	Recombinant Mouse Cathepsin D / CTSD Protein
Isotype	Rabbit IgG

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Clone	A103
Applications	WB; ELISA
Dilution	Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Mouse CTSD in WB. Using a DAB detection system, the detection limit for Mouse CTSD is approximately 1 ng/lane under non-reducing conditions and 0.5 ng/lane under reducing conditions. ELISA: This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Mouse CTSD. The detection limit for Mouse CTSD is approximately 0.00975 ng/well.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Mouse Cathepsin D / CTSD
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70°C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	Ctsd cathepsin D [<i>Mus musculus</i>]
Official Symbol	Ctsd
Synonyms	CTSD; cathepsin D; CD; CatD;
Gene ID	13033

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mRNA Refseq	NM_009983
Protein Refseq	NP_034113
Pathway	Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Tuberculosis, organism-specific biosystem; Tuberculosis, conserved biosystem;
Function	aspartic-type endopeptidase activity; endopeptidase activity; hydrolase activity; peptidase activity; peptide binding;

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