

Mouse anti-Human CTSS Monoclonal Antibody | anti-CTSS antibody

CTSS antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48134	Mouse	Human	Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

CTSS; Monoclonal Antibody; CTSS antibody; Cathepsin S; MGC3886; anti-CTSS antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	AT1F9
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	331
Applicable Applications for anti-CTSS antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human CTSS (17-331aa) purified from E. coli
Clone Note	Anti-human CTSS mAb, clone AT1F9, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human CTSS protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of CTSS in U87MG cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human CTSS antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green). ICC/IF analysis of CTSS in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human CTSS antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green). ICC/IF analysis of CTSS in A549 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human CTSS antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The recombinant proteins (20ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CTSS antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1. : Recombinant Human CTSS Lane 2. : Recombinant Human CTSD Lane 3. : Recombinant Human CTSE Lane 4. : Recombinant Human CTSF Lane 5. : Recombinant Human CTSH Lane 6. : Recombinant Human CTSK Lane 7. : Recombinant Human CTSL Lane 8. : Recombinant Human CTSS Lane 9. : Recombinant Human CTSW Lane 10. : Recombinant Human CTSZ The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CTSS antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1. : HeLa cell lysate Lane 2. : U87MG cell lysate Lane 3. : A549 cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-CTSS antibody	CTSS (Cathepsin S) is a lysosomal enzyme that belongs to the papain family of cysteine proteases. This protein is expressed by antigen presenting cells including macrophages, B-lymphocytes, dendritic cells and microglia. Moreover, CTSS is expressed in some epithelial cells. In contrast, cortical thymic epithelial cells do not express CTSS. Normal epidermal keratinocytes do not express CTSS. However, level of CTSS is elevated in psoriatic keratinocytes due to stimulation by proinflammatory factors. CTSS can function as an elastase over a broad pH range in alveolar macrophages.
Product Categories/Family for anti-CTSS antibody	Immunology
References	Shi. G.P., et al. (1994) J Biol Chem 269: 11530-11536; Lemere. C.A., et al. (1995) Am J Pathol 146 (4): 848-860; Shi. G.P., et al. (1992) J Biol Chem 267 (11): 7258-7262

NCBI AND UNIPROT INFORMATION

NCBI GI #	23110962
NCBI GeneID	1520
NCBI Accession #	NP_004070
NCBI GenBank Nucleotide #	NM_004079.4
UniProt Accession #	P25774; Q5T5I0; Q6FHS5; Q9BUG3; B4DWC9; D3DV05
Molecular Weight	31,626 Da
NCBI Official Full Name	cathepsin S isoform 1 preproprotein
NCBI Official Synonym Full Names	cathepsin S
NCBI Official Symbol	CTSS
NCBI Protein Information	cathepsin S
UniProt Protein Name	Cathepsin S
UniProt Gene Name	CTSS

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.