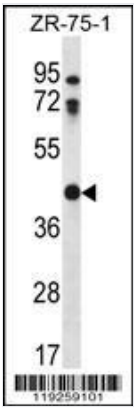
CTSO Antibody – Rabbit Polyclonal

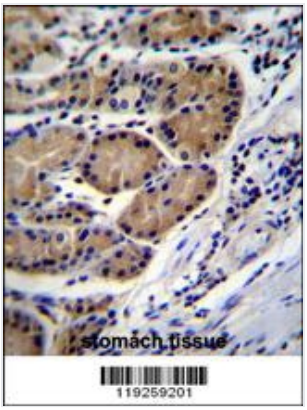
PRODUCT OVERVIEW

Product Name	CTSO, Polyclonal Antibody
Full Product Name	CTSO, NT (CTSO, CTSO1, Cathepsin O) (FITC)
Product Gene Name	anti-CTSO antibody
Product Synonym Names	CTSO; CTSO1; Cathepsin O
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	35,958 Da
Chromosome Location	Chromosome: 4; NC_000004.11 (156845270..156875048, complement). Location: 4q32.1
OMIM	600550
3D Structure	ModBase 3D Structure for P43234
Immunogen	CTSO antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 76-106 amino acids from the N-terminal region of human CTSO.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-CTSO antibody	Antibodies; Cathepsin
Applications Tested/Suitable for anti-CTSO antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-CTSO antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-CTSO antibody	The protein encoded by the gene is a cysteine proteinase and a member of the papain superfamily. This proteolytic enzyme is involved in cellular protein degradation and turnover. The recombinant form of this enzyme was shown to degrade synthetic peptides typically used as substrates for cysteine proteinases and its proteolytic activity was abolished by an inhibitor of cyteine proteinase.

Product References and Citations for anti-CTSO antibody	Roeske, D., et al. Mol. Psychiatry (2009). In press: Lamesch, P., et al. Genomics 89(3):307-315(2007). Santamaria, I., et al. Genomics 53(2):231-234(1998). Shi, G.P., et al. FEBS Lett. 357(2):129-134(1995) Velasco, G., et al. J. Biol. Chem. 269(43):27136-27142(1994).
Other Notes	Small volumes of anti-CTSO antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CTSO purchase	MBS6289938 is an antibody targeting CTSO. Also known as CTSO, NT (CTSO, CTSO1, Cathepsin O) (FITC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-CTSO antibody
CTSO Antibody (N-term) western blot analysis in ZR-75-1 cell line lysates (35ug/lane).This demonstrates the CTSO antibody detected the CTSO protein (arrow).



Immunohistochemistry (IHC) of anti-CTSO antibody
CTSO Antibody (N-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CTSO Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CTSO. It may not necessarily be applicable to this product.

NCBI GI #	4557501
NCBI GeneID	1519
NCBI Accession #	NP_001325.1
UniProt Primary Accession #	P43234
UniProt Related Accession #	P43234
GenBank Nucleotide #	NM_001334.2
NCBI Official Full Name	cathepsin O preproprotein
NCBI Official Synonym Full Names	cathepsin O
NCBI Official Symbol	CTSO
NCBI Official Synonym Symbols	CTSO1
UniProt Protein Name	Cathepsin O
Protein Family	Cathepsin
UniProt Gene Name	CTSO
UniProt Synonym Gene Names	CTSO1
UniProt Entry Name	CATO_HUMAN
NCBI Protein Information	cathepsin O

Research Articles on CTSO	**1.** In this study, various molecular dynamics (MD) simulations of pro- and mature human cathepsins L and O were performed.
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