

CTSO Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12765a**Specification**

CTSO Antibody (N-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	P43234
Other Accession	NP_001325.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	69-98

CTSO Antibody (N-term) - Additional Information**Gene ID** 1519**Other Names**

Cathepsin O, CTSO, CTSO1

Target/Specificity

This CTSO antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 69-98 amino acids from the N-terminal region of human CTSO.

Dilution

WB~~1:1000

IHC-P~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CTSO Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CTSO Antibody (N-term) - Protein Information**Name** CTSO**Synonyms** CTSO1

Function Proteolytic enzyme possibly involved in normal cellular protein degradation and turnover.

Cellular Location

Lysosome.

Tissue Location

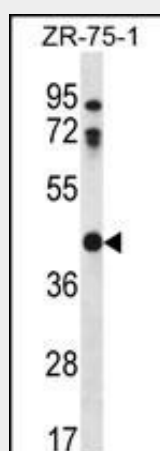
Expressed in all tissues examined. High levels seen in the ovary, kidney and placenta while low levels seen in thymus and skeletal muscle

CTSO Antibody (N-term) - Protocols

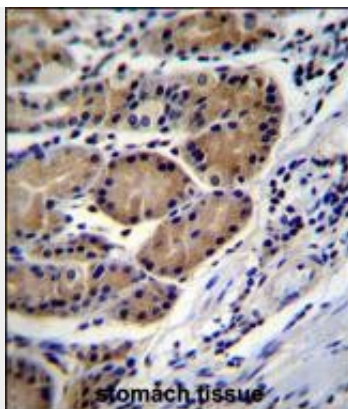
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CTSO Antibody (N-term) - Images



CTSO Antibody (N-term) (Cat. #AP12765a) western blot analysis in ZR-75-1 cell line lysates (35ug/lane). This demonstrates the CTSO antibody detected the CTSO protein (arrow).



CTSO Antibody (N-term) (Cat. #AP12765a) 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.

CTSO Antibody (N-term) - Background

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 cysteine proteinase.

CTSO Antibody (N-term) - References

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)