

CTSF Antibody (Center D276) Blocking Peptide
Synthetic peptide
Catalog # BP6569b**Specification**

CTSF Antibody (Center D276) Blocking Peptide - Product InformationPrimary Accession [Q9UBX1](#)**CTSF Antibody (Center D276) Blocking Peptide - Additional Information****Gene ID** 8722**Other Names**

Cathepsin F, CATSF, CTSF

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6569b](/products/AP6569b) was selected from the Center region of human CTSF. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CTSF Antibody (Center D276) Blocking Peptide - Protein Information**Name** CTSF**Function**

Thiol protease which is believed to participate in intracellular degradation and turnover of proteins. Has also been implicated in tumor invasion and metastasis.

Cellular Location

Lysosome.

Tissue Location

High expression levels in heart, skeletal muscle, brain, testis and ovary; moderate levels in prostate, placenta, liver and colon; and no detectable expression in peripheral leukocytes and thymus

CTSF Antibody (Center D276) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

CTSF Antibody (Center D276) Blocking Peptide - Images

CTSF Antibody (Center D276) Blocking Peptide - Background

Cathepsins are papain family cysteine proteinases that represent a major component of the lysosomal proteolytic system. Cathepsins generally contain a signal sequence, followed by a propeptide and then a catalytically active mature region. The very long (251 amino acid residues) proregion of the cathepsin F precursor contains a C-terminal domain similar to the pro-segment of cathepsin L-like enzymes, a 50-residue flexible linker peptide, and an N-terminal domain predicted to adopt a cystatin-like fold. The cathepsin F proregion is unique within the papain family cysteine proteases in that it contains this additional N-terminal segment predicted to share structural similarities with cysteine protease inhibitors of the cystatin superfamily. This cystatin-like domain contains some of the elements known to be important for inhibitory activity. CTSF is a predicted protein of 484 amino acids which contains a 19 residue signal peptide. Cathepsin F contains five potential N-glycosylation sites, and it may be targeted to the endosomal/lysosomal compartment via the mannose 6-phosphate receptor pathway.

CTSF Antibody (Center D276) Blocking Peptide - References

Kaakinen,R., Atherosclerosis 192 (2), 323-327 (2007)Oorni,K., J. Biol. Chem. 279 (33), 34776-34784 (2004)