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CTSF Antibody (Center Y194) Blocking Peptide

Synthetic peptide
Catalog # BP6569a

Specification

CTSF Antibody (Center Y194) Blocking Peptide - Product Information

Primary Accession Q9UBX1

CTSF Antibody (Center Y194) Blocking Peptide - Additional Information

Gene ID 8722

Other Names
Cathepsin F, CATSF, CTSF

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6569a 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 Y194) 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

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CTSF Antibody (Center Y194) Blocking Peptide - Protocols

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

- Blocking Peptides

CTSF Antibody (Center Y194) Blocking Peptide - Images

CTSF Antibody (Center Y194) 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 Y194) Blocking Peptide - References

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