

**Goat Anti-Cathepsin F Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1197a****Specification**

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**Goat Anti-Cathepsin F Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q9UBX1</a>
Other Accession	<a href="#">NP_003784</a> , <a href="#">8722</a>
Reactivity	Human
Predicted	Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	53366

**Goat Anti-Cathepsin F Antibody - Additional Information****Gene ID** 8722**Other Names**

Cathepsin F, CATSF, 3.4.22.41, CTSF

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-Cathepsin F Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-Cathepsin F Antibody - 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

**Goat Anti-Cathepsin F Antibody - 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](#)

**Goat Anti-Cathepsin F Antibody - Images**

AF1197a (0.3 µg/ml) staining of Human Ovary lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

**Goat Anti-Cathepsin F Antibody - 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 encodes 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. The cathepsin F gene is ubiquitously expressed, and it maps to chromosome 11q13, close to the gene encoding cathepsin W.

**Goat Anti-Cathepsin F Antibody - References**

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Angiotensin II increases expression and secretion of cathepsin F in cultured human monocyte-derived macrophages: an angiotensin II type 2 receptor-mediated effect. Kaakinen R, et al. Atherosclerosis, 2007 Jun. PMID 16963053.

Overexpression of cathepsin F, matrix metalloproteinases 11 and 12 in cervical cancer. Vazquez-Ortiz G, et al. BMC Cancer, 2005 Jun 30. PMID 15989693.