

## Goat Anti-Cathepsin F Antibody

Peptide-affinity purified goat antibody Catalog # AF1197a

### Specification

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

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Concentration Isotype Calculated MW

WB, E <u>Q9UBX1</u> <u>NP\_003784</u>, <u>8722</u> Human Mouse, Rat, Dog Goat Polyclonal 100ug/200ul IgG 53366

# Goat Anti-Cathepsin F Antibody - Additional Information

Gene ID 8722

Other Names Cathepsin F, CATSF, 3.4.22.41, CTSF

Dilution WB~~1:1000 E~~N/A

**Format** 0.5 mg lgG/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.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

## Goat Anti-Cathepsin F Antibody - Images

250kDa 150kDa 100kDa 75kDa 50kDa 37kDa 25kDa 20kDa 15kDa 10kDa

AF1197a (0.3  $\mu$ g/ml) staining of Human Ovary lysate (35  $\mu$ g 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 mays to chromosome 11q13, close to the gene encoding cathepsin W.



# Goat Anti-Cathepsin F Antibody - References

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monocyte-derived macrophages: an angiotensin II type 2 receptor-mediated effect. Kaakinen R, et al. Atherosclerosis, 2007 Jun. PMID 16963053.

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