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CTSF Antibody (Center D276)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6569b

Specification

CTSF Antibody (Center D276) - Product Information

Application	**FC, IHC-P, WB,E**
Primary Accession	Q9UBX1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**53366**
Antigen Region	**261-290**

CTSF Antibody (Center D276) - Additional Information

Gene ID 8722

Other Names
Cathepsin F, CATSF, CTSF

Target/Specificity
This CTSF antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 261-290 amino acids from the Central region of human CTSF.

Dilution
FC~~1:10~50
IHC-P~~1:50~100
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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
CTSF Antibody (Center D276) is for research use only and not for use in diagnostic or therapeutic procedures.

CTSF Antibody (Center D276) - 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.

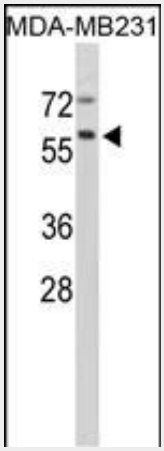
Tissue Location
High expression levels in heart, skeletal muscle, brain, testis and ovary; moderate levels in prostate, placenta, liver and colon; and no detectable expression in peripheral leukocytes and thymus

CTSF Antibody (Center D276) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CTSF Antibody (Center D276) - Images



Western blot analysis of CTSF Antibody (Center D276) (Cat. #AP6569b) in MDA-MB231 cell line lysates (35ug/lane). CTSF (arrow) was detected using the purified Pab.

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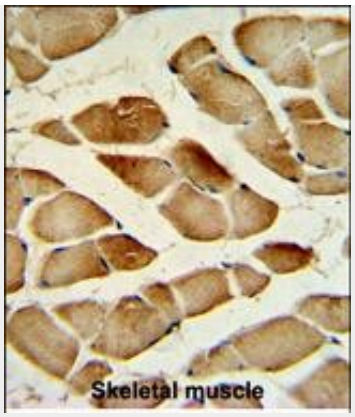
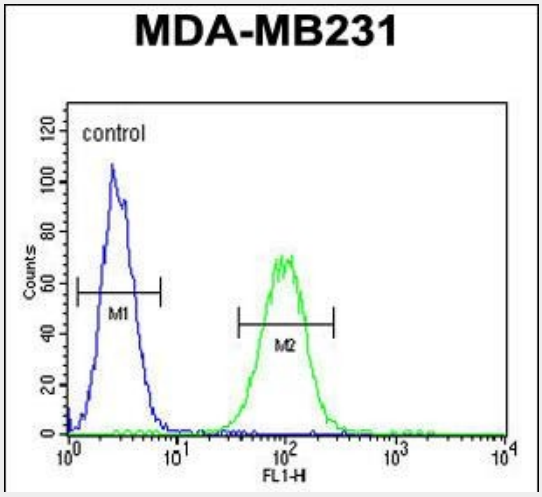


CTSF Antibody (Center D276) (Cat. #AP6569b) IHC analysis in formalin fixed and paraffin embedded human Skeletal muscle tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CTSF Antibody (Center D276) for immunohistochemistry. Clinical relevance has not been evaluated.



CTSF Antibody (Center D276) (Cat. #AP6569b) flow cytometric analysis of MDA-MB231 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

CTSF Antibody (Center D276) - 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) - References

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