

## Datasheet

### CTSF mouse monoclonal antibody (hybridoma)

**Catalog Number:** H00008722-M

**Regulation Status:** For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against a full-length recombinant CTSF.

**Immunogen:** CTSF (NP\_003784.2, 1 a.a. ~ 484 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Sequence:**

MAPWLQLLSLLGLLPGAVAAPPAQPRASFQAWGPPS  
PELLAPTRFALEMFNRGRAAGTRAVLGLVRGRVRRAG  
QGSLSLEATLEPPCNDPMVCRLPVSKKTLLCSFQV  
LDELGRHVLLRKDCGPVDTKVPAGEPKSAFTQGSA  
MISSLSQNHDPNRFSSVISLLNEDPLSQDLPVKMA  
SIFKNFVITYNRTYESKEEARWRLSVFVNNMVRAQKIQ  
ALDRGTAQYGVTKFSDLTEEEFRTIYLNLLRKEPGNK  
MKQAKSVGDLAPPEWDWRSGAVTKVKDQGMCGSC  
WAFSVTGNVEGWFLNQGTLLSLSEQELLDCKMDK  
ACMGGPLPSNAYSIAKNLGGLETEDDYSYQGHMQSCN  
FSAEKAKVYINDSVLSQNEQKLAAWLAKRGPISVAIN  
AFGMQFYRHGISRPLRPLCSPWLIDHAVLLVGYGNRS  
DVPFWAIKNSWGTDWGEKGYYYLHRGSGACGVNTM  
ASSAVVD

**Host:** Mouse

**Reactivity:** Human

**Applications:** ELISA, WB-Re, WB-Tr

(See our web site product page for detailed applications information)

**Protocols:** See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Entrez GeneID:** 8722

**Gene Symbol:** CTSF

**Gene Alias:** CATSF

**Gene Summary:** 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. [provided by RefSeq]