



Anti-CTSF monoclonal antibody (DCABH-11165)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

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.

Immunogen	A synthetic peptide of human CTSF is used for rabbit immunization.
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Isotype	IgG
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Source/Host	Rabbit
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Species Reactivity	Human
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Purification	Protein A
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Conjugate	Unconjugated
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Applications	Western Blot (Transfected lysate); ELISA
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Buffer	In 1x PBS, pH 7.4
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Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	CTSF cathepsin F [Homo sapiens]
Official Symbol	CTSF
Synonyms	CTSF; cathepsin F; CATSF; CLN13;
Entrez Gene ID	8722
Protein Refseq	NP_003784
UniProt ID	Q9UBX1
Chromosome Location	11q13.2
Pathway	Lysosome, organism-specific biosystem; Lysosome, conserved biosystem;
Function	cysteine-type endopeptidase activity; peptidase activity;