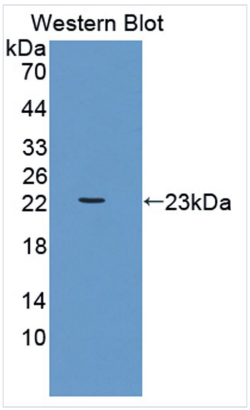
Cathepsin G (CTSG) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Cathepsin G (CTSG), Polyclonal Antibody
Full Product Name	Biotin-Linked Antibody to Cathepsin G (CTSG)
Product Gene Name	anti-CTSG antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Concentration	500ug/ml (lot specific)
Preparation and Storage	Store at 4 degree C for frequent use. Stored at -20 degree C to -80 degree C in a manual defrost freezer for one year without detectable loss of activity. Avoid repeated freeze-thaw cycles.
Matching Pairs	Unconjugated Antibody: CTSG (MBS2002863) Biotin Conjugated Antibody: CTSG (MBS2008564)
Matching Pairs	Biotin Conjugated Antibody: CTSG (MBS2008564) Immunogen: CTSG (MBS2029904)
Molecular Weight	28,837 Da
Chromosome Location	Chromosome: 14; NC_000014.8 (25042724..25045466, complement). Location: 14q11.2
OMIM	116830
3D Structure	ModBase 3D Structure for P08311
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Product Categories/Family for anti-CTSG antibody	Biotin Antibody
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-CTSG antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Related Product Information for anti-CTSG antibody	MBS2008564 is an antibody targeting CTSG. Also known as Biotin-Linked Antibody to Cathepsin G (CTSG). Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-CTSG antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-CTSG antibody
(Figure. Western Blot; Sample: Recombinant protein.)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CTSG. It may not necessarily be applicable to this product.

NCBI GI #	4503149
NCBI GeneID	1511
NCBI Accession #	NP_001902.1
UniProt Primary Accession #	P08311
UniProt Secondary Accession #	Q6IBJ6; Q9UCA5; Q9UCU6
UniProt Related Accession #	P08311
GenBank Nucleotide #	NM_001911.2
NCBI Official Full Name	cathepsin G preproprotein
NCBI Official Synonym Full Names	cathepsin G
NCBI Official Symbol	CTSG
NCBI Official Synonym Symbols	CG; CATG
UniProt Protein Name	Cathepsin G
Protein Family	Cathepsin
UniProt Gene Name	CTSG
UniProt Synonym Gene Names	CG
UniProt Entry Name	CATG_HUMAN
NCBI Protein Information	cathepsin G
NCBI Summary for CTSG	The protein encoded by this gene, a member of the peptidase S1 protein family, is found in azurophil granules of neutrophilic polymorphonuclear leukocytes. The encoded protease has a specificity similar to that of chymotrypsin C, and may participate in the killing and digestion of engulfed pathogens, and in connective tissue remodeling at sites of inflammation. In addition, the encoded protein is antimicrobial, with bacteriocidal activity against S. aureus and N. gonorrhoeae. Transcript variants utilizing alternative polyadenylation signals exist for this gene. [provided by RefSeq, Sep 2014]

UniProt Comments for CTSG	CTSG: Serine protease with trypsin- and chymotrypsin-like specificity. Cleaves complement C3. Has antibacterial activity against the Gram-negative bacterium P.aeruginosa, antibacterial activity is inhibited by LPS from P.aeruginosa, Z-Gly-Leu-Phe- CH2Cl and phenylmethylsulfonyl fluoride. Belongs to the peptidase S1 family. Protein type: EC 3.4.21.20; Protease; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 14q11.2 Cellular Component: extracellular matrix; extracellular space; cell surface; plasma membrane; extracellular region; nucleus; secretory granule Molecular Function: peptidase activity; heparin binding; serine-type endopeptidase activity Biological Process: extracellular matrix disassembly; positive regulation of immune response; extracellular matrix organization and biogenesis; cellular protein metabolic process; response to lipopolysaccharide; protein processing; immune response; angiotensin maturation; proteolysis; defense response to fungus
Research Articles on CTSG	**1.** demonstrate that cathepsin G (CG), neutrophil elastase (NE), and to a lesser extent proteinase 3 (PR3), degrade endocan
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