



# Cathepsin G Monoclonal Antibody

<b>Catalog No</b>	BYmab-02531
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat;Mouse;
<b>Applications</b>	WB
<b>Gene Name</b>	CTSG
<b>Protein Name</b>	Cathepsin G
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human Cathepsin G. AA range:67-116
<b>Specificity</b>	Cathepsin G Monoclonal Antibody detects endogenous levels of Cathepsin G protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	CTSG; Cathepsin G; CG
<b>Observed Band</b>	22kD
<b>Cell Pathway</b>	Cell membrane ; Peripheral membrane protein . Cytoplasmic granule . Secreted . Cytoplasm, cytosol . Lysosome . Nucleus . Secreted by activated neutrophils (PubMed:3390156). Detected in synovial fluid (PubMed:32144329). Localizes to lysosomes in B cells where it is not endogenously synthesized but is internalized from the cell membrane (PubMed:15100291). Localizes to the nucleus during apoptosis (PubMed:11259672). .
<b>Tissue Specificity</b>	Expressed in neutrophils (at protein level) (PubMed:3799965). Expressed in B cells (PubMed:15100291).
<b>Function</b>	catalytic activity:Specificity similar to chymotrypsin C.,enzyme regulation:Inhibited by soybean trypsin inhibitor, benzamidine, the synthetic peptide R13K, Z-Gly-Leu-Phe-CH <sub>2</sub> Cl and phenylmethylsulfonyl fluoride. Inhibited by LPS from P.aeruginosa but not by LPS from S.minnesota.,function:Serine protease with trypsin- and chymotrypsin-like specificity. Has antibacterial activity against the Gram-negative bacterium P.aeruginosa, antibacterial activity is inhibited by LPS

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from *P.aeruginosa*, Z-Gly-Leu-Phe-CH<sub>2</sub>Cl and phenylmethylsulfonyl fluoride.,similarity:Belongs to the peptidase S1 family.,similarity:Contains 1 peptidase S1 domain.,

#### Background

The protein encoded by this gene, a member of the peptidase S1 protein family, is found in azurophilic 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],

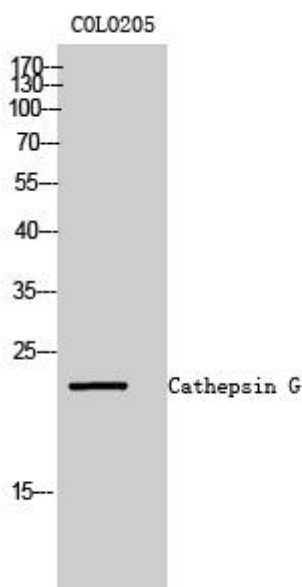
#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis of various cells using Cathepsin G Monoclonal Antibody

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网址: [www.njbybio.com](http://www.njbybio.com)

官方热线: 025-5229-8998

监督电话: 15950492658