

Rabbit anti-Human Cathepsin G Polyclonal Antibody | anti-CTSG antibody

Anti-Cathepsin G Antibody

CATALOG # AAA46828	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot
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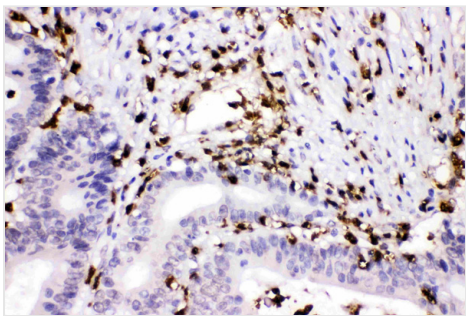
PRODUCT SYNONYMS

Cathepsin G; Polyclonal Antibody; Anti-Cathepsin G Antibody; CATG; CTSG; P08311; anti-CTSG antibody

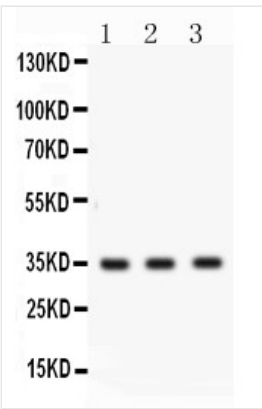
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	255
Applicable Applications for anti-CTSG antibody	IHC (Immunohistochemistry), WB (Western Blot)
Notes	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	E. coli-derived human Cathepsin G recombinant protein (Position: R25-E252). Human Cathepsin G shares 69.7% amino acid (aa) sequence identity with mouse Cathepsin G.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)
Cathepsin G was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- Cathepsin G Antigen Affinity purified polyclonal antibody at 1 ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)
Western blot analysis of Cathepsin G expression in COLO320 whole cell lysates (lane 1), MCF-7 whole cell lysates (lane 2) and U20S whole cell lysates (lane 3). Cathepsin G at 35KD was detected using rabbit anti- Cathepsin G Antigen Affinity purified polyclonal antibody at 0.5ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-CTSG antibody	Rabbit IgG polyclonal antibody for Cathepsin G(CTSG) detection. Background: Cathepsin G is an enzymatic protein belonging to the peptidase or protease families. In humans, it is coded by the CTSG gene. This gene is mapped to 14q12. In transgenic mice, it was found that human Cathepsin G gene was expressed in early myeloid precursors in a manner coordinate with the expression of the endogenous murine gene in the bone marrow and spleen. 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.
References	1. "Entrez Gene: CTSG cathepsin G". 2. Grisolano, J. L., Sclar, G. M., Ley, T. J. Early myeloid cell-specific expression of the human Casthepsin G gene in transgenic mice. Proc. Nat. Acad. Sci. 91: 8989-8993, 1994.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503149
NCBI GeneID	1511
NCBI Accession #	NP_001902.1
NCBI GenBank Nucleotide #	NM_001911.2
UniProt Accession #	P08311; Q6IBJ6; Q9UCA5; Q9UCU6
Molecular Weight	28,837 Da
NCBI Official Full Name	cathepsin G preproprotein
NCBI Official Synonym Full Names	cathepsin G
NCBI Official Symbol	CTSG
NCBI Official Synonym Symbols	CG; CATG
NCBI Protein Information	cathepsin G
UniProt Protein Name	Cathepsin G
UniProt Gene Name	CTSG
UniProt Synonym Gene Names	CG

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cathepsin-g-antibody-immunohistochemistry-western-blot-elisa/46828>