

Datasheet for ABIN3042774
anti-Cathepsin G antibody (AA 76-255)



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1 Image

Overview

Quantity:	100 µg
Target:	Cathepsin G (CTSG)
Binding Specificity:	AA 76-255
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Cathepsin G antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-Cathepsin G/CTSG Antibody Picoband®
Immunogen:	E.coli-derived human Cathepsin G recombinant protein (Position: A76-L255). Human Cathepsin G shares 66% amino acid (aa) sequence identity with mouse Cathepsin G.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Cathepsin G/CTSG Antibody Picoband® (ABIN3042774). Tested in WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	Cathepsin G (CTSG)
Alternative Name:	CTSG (CTSG Products)
Background:	Synonyms: Cathepsin G,CG,3.4.21.20,CTSG, Tissue Specificity: Expressed in the aorta extracellular space (at protein level). . 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, 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. Sequence Similarities: Belongs to the peptidase S1 family.
Molecular Weight:	38 kDa
Gene ID:	1511
UniProt:	P08311
Pathways:	ACE Inhibitor Pathway , Peptide Hormone Metabolism , Regulation of Systemic Arterial Blood Pressure by Hormones

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Rat, Human 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.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL

Handling

Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1. Anti-Cathepsin G Picoband antibody, All lanes: Anti-Cathepsin G at 0.5ug/mlWB: Rat Thymus Tissue Lysate at 40ug Predicted bind size: 38KDObserved bind size: 38KD