antibodies

Datasheet for ABIN4886550 anti-Cathepsin G antibody (AA 25-252)

2 Images



Overview

Quantity:	100 µg
Target:	Cathepsin G (CTSG)
Binding Specificity:	AA 25-252
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	
Purpose:	Rabbit IgG polyclonal antibody for Cathepsin G(CTSG) detection. Tested with WB, IHC-P in Human.
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.
lsotype:	lgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Cathepsin G(CTSG) detection. Tested with WB, IHC-P in Human. Gene Name: cathepsin G Protein Name: Cathepsin G
Purification:	Immunogen affinity purified.

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Target Details	
Target:	Cathepsin G (CTSG)
Alternative Name:	CTSG (CTSG Products)
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.
Gene ID:	1511

UniProt:	P08311
Pathways:	ACE Inhibitor Pathway, Peptide Hormone Metabolism, Regulation of Systemic Arterial Blood
	Pressure by Hormones

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human		
	IHC-P: Concentration: 0.5-1 μ g/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling		
	the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of		
	formalin/paraffin sections.		
	Notes: Tested Species: Species with positive results. Other applications have not been tested.		
	Optimal dilutions should be determined by end users.		
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by		
	ABIN921231 in IHC(P).		
Restrictions:	For Research Use only		
Handling			
Format:	Lyophilized		
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 μ g/mL.		

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Handling	
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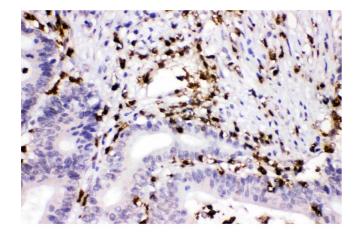
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Images

130KD -	1	2	3
100KD -			
70KD -			
55KD -			
35KD -	-	-	-
25KD -			
15KD -			

Western Blotting

Image 1. 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 (Catalog #) at 0.5 μ g/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).



Immunohistochemistry

Image 2. Cathepsin G was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- Cathepsin G Antigen Affinity purified polyclonal antibody (Catalog #) at 1 ??g/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).

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