

Cathepsin S Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Goat / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Cathepsin S Gln17-Ile331
Form	Lyophilized
Concentration	0.2 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 5% trehalose
Contains	No Preservative
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2609121

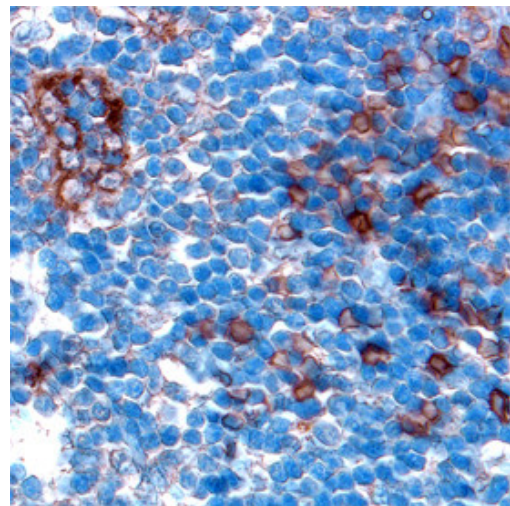
Applications	Tested Dilution	Publications
Western Blot (WB)	0.1-1 µg/mL	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	5-15 µg/mL	-
ELISA (ELISA)	0.1-0.4 µg/mL (Detection), 0.2-0.8 µg/mL (Capture)	-
Immunoprecipitation (IP)	25 µg/mL	-
Neutralization (Neu)	0.2-1.8 µg/mL	-

Product Specific Information

In sandwich ELISAs, less than 0.05% cross-reactivity with recombinant human Cathepsin A, B, C, D, E, L, V, and X/Z/P is observed.

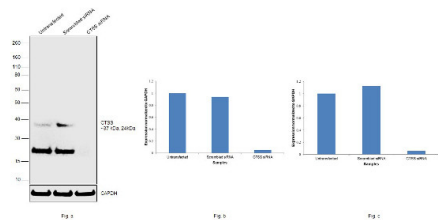
Reconstitute at 0.2 mg/mL in sterile PBS.

Product Images For Cathepsin S Polyclonal Antibody



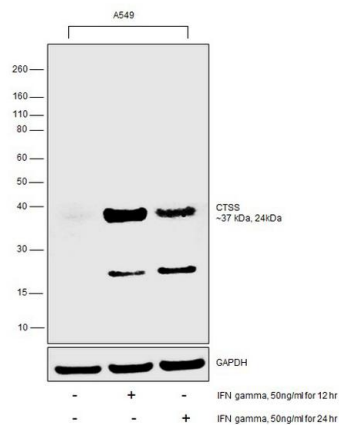
Cathepsin S Antibody (PA5-47088) in IHC (P)

Immunohistochemical analysis of Cathepsin S in immersion fixed paraffin-embedded sections of human lymph node. Samples were incubated in Cathepsin S polyclonal antibody (Product # PA5-47088) using a dilution of 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown) and counterstained with hematoxylin (blue).



Cathepsin S Antibody (PA5-47088)

Antibody specificity was demonstrated by siRNA mediated KD of target protein. A549 cells were transfected with Cathepsin S siRNA and reduction of signal was observed in Western Blot using Cathepsin S Polyclonal Antibody (Product # PA5-47088). {KD}



Cathepsin S Antibody (PA5-47088) in WB

Western blot was performed using Anti-Cathepsin S Polyclonal Antibody (Product # PA5-47088) and 37 kDa, 24 kDa bands corresponding to Cathepsin S was observed upon treatments in A549 cells. Whole cell extracts (30 µg lysate) of A549 (Lane 1), A549 treated with IFN gamma (50 ng/mL for 12hr) (Lane 2) and A549 treated with IFN gamma (50 ng/mL for 24hr) (Lane 3) were electrophoresed using NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # LC2001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1µg/mL) and detected by chemiluminescence Rabbit anti-Goat IgG Heavy Chain Superclonal Secondary Antibody, HRP conjugate (Product # A27014, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).

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Western Blot (1)

Pharmaceutics	Year 2021
Cathepsin S Cleaves BAX as a Novel and Therapeutically Important Regulatory Mechanism for Apoptosis.	Species Human
<p>"PA5-47088 was used in Western Blotting to report novel findings that highlight the ability of cathepsin S expression to be up-regulated under Paclitaxel-stimulatory conditions in kidney cell lines and it being able to cleave the apoptotic p21 BAX protein in intact cells and in vitro."</p> <p>Authors: Soond SM,Savvateeva LV,Makarov VA,Gorokhovets NV,Townsend PA,Zamyatnin AA</p>	

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