

Cathepsin B (H190) Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 39-42	Source/Isotype: Rabbit	UniProt ID: #P07858	Entrez-Gene Id: 1508
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Cathepsin B (H190) Antibody detects endogenous levels of total cathepsin B protein. Cathepsin B (G60) Antibody #3373 produces a stronger signal for human cathepsin B on western blot, while Cathepsin B (H190) Antibody is preferred for the mouse protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly320 of human cathepsin B in a region that is conserved in mouse and rat. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		endopeptidase (1,2). (runs at approximately mature two-chain pro High levels of catheps cells, including lung, of been associated with localized to lysosomes thought to involve pro Expression can correla	Cathepsin B is prod y 44 kDa on SDS-PA stein containing a h sin B are found in m colon, prostate, bre multiple sclerosis (; s, in cancer alteration omotion of baseme ate with poor progical s SARS-CoV-2-relate	mily of proteases, is a wuced from a larger precuge, and is proteolytically eavy chain (running at 2 pacrophages and osteoclast, and stomach. In add 3), rheumatoid arthritis (ons can lead to its secret nt membrane degradatinosis for a variety of forr d target for research int D-19 pandemic.	ursor form, pro-cath processed and gly 7 and 24 kDa) and a lasts, as well as vari dition, expression o (4), and pancreatitis tion (6). Its role in tu ion, invasion and m ms of cancer (9-13).	nepsin B, which cosylated to form a light chain (5 kDa). ous types of cancer f cathepsin B has (5). While generally amor progression is etastasis (7,8).
Background References		2. Fong, D. et al. (1986 3. Bever, C.T. et al. (1996 4. Hashimoto, Y. et al. 5. Halangk, W. et al. (2 6. Berquin, I.M. and Sl 7. Yan, S. et al. (1998) 8. Vasiljeva, O. et al. (2 9. Campo, E. et al. (19 10. Foekens, J.A. et al. 11. Werle, B. et al. (200	tal. (1986) <i>Proc Natl Acad Sci USA</i> 83, 7721-5. al. (1986) <i>Proc Natl Acad Sci USA</i> 83, 2909-13. t al. (1994) <i>Neurology</i> 44, 745-8. Y. et al. (2001) <i>Biochem Biophys Res Commun</i> 283, 334-9. et al. (2000) <i>J Clin Invest</i> 106, 773-81. A. and Sloane, B.F. (1996) <i>Adv Exp Med Biol</i> 389, 281-94. et al. (2006) <i>Cancer Res</i> 66, 5242-50. et al. (2006) <i>Cancer Res</i> 66, 5242-50. et al. (1994) <i>Am J Pathol</i> 145, 301-9. A. et al. (1998) <i>J Clin Oncol</i> 16, 1013-21. et al. (2000) <i>Cin Cancer Res</i> 6, 578-84. et al. (2000) <i>Cancer</i> 89, 2282-91.			

Species Reactivity

Applications Key

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

W: Western Blotting

Cross-Reactivity Key H: Human M: Mouse

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