Cathepsin B (G60) Antibody





Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W	Reactivity: H	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 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sens	itivity	Cathepsin B (G60) Antibody detects endogenous levels of total human cathepsin B protein.				rotein.	
Source / Purifica	rce / Purification Polyclonal antibodies are produced by immunizing animals with a synthetic peptide correspondi residues surrounding Gly60 of human cathepsin B. Antibodies are purified by protein A and peptiafinity chromatography.				corresponding to א A and peptide		
Background Cathepsin B (CSTB), part of the papain family of proteases, is a widely expressed lysosomal endopeptidase (1,2). Cathepsin B is produced from a larger precursor form, pro-cathepsin B runs at approximately 44 kDa on SDS-PAGE, and is proteolytically processed and glycosylate mature two-chain protein containing a heavy chain (running at 27 and 24 kDa) and a light of High levels of cathepsin B are found in macrophages and osteoclasts, as well as various typ cells, including lung, colon, prostate, breast, and stomach. In addition, expression of cathepsi been associated with multiple sclerosis (3), rheumatoid arthritis (4), and pancreatitis (5). Wr localized to lysosomes, in cancer alterations can lead to its secretion (6). Its role in tumor pr thought to involve promotion of basement membrane degradation, invasion and metastas Expression can correlate with poor prognosis for a variety of forms of cancer (9-13). This product detects a SARS-CoV-2-related target for research into the mechanisms of the N Coronavirus, which has caused the COVID-19 pandemic.					somal cysteine epsin B, which osylated to form a light chain (5 kDa). ous types of cancer cathepsin B has (5). While generally mor progression is etastasis (7,8).		
Background References		 Chan, S.J. et al. (1986) <i>Proc Natl Acad Sci USA</i> 83, 7721-5. Fong, D. et al. (1986) <i>Proc Natl Acad Sci USA</i> 83, 2909-13. Bever, C.T. et al. (1994) <i>Neurology</i> 44, 745-8. Hashimoto, Y. et al. (2001) <i>Biochem Biophys Res Commun</i> 283, 334-9. Halangk, W. et al. (2000) <i>J Clin Invest</i> 106, 773-81. Berquin, I.M. and Sloane, B.F. (1996) <i>Adv Exp Med Biol</i> 389, 281-94. Yan, S. et al. (1998) <i>Biol Chem</i> 379, 113-23. Vasiljeva, O. et al. (2006) <i>Cancer Res</i> 66, 5242-50. Campo, E. et al. (1994) <i>Am J Pathol</i> 145, 301-9. Foekens, J.A. et al. (1998) <i>J Clin Oncol</i> 16, 1013-21. Werle, B. et al. (1999) <i>Br J Cancer</i> 81, 510-9. Lah, T.T. et al. (2000) <i>Clin Cancer Res</i> 6, 578-84. Werle, B. et al. (2000) <i>Cancer</i> 89, 2282-91. 					
Species Reactivi	ity	Species reactivity is de	etermined by testing	in at least one approve	d application (e.g.,	western blot).	
Western Blot Bu	ıffer	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.					
Applications Ke	у	W: Western Blotting					
Cross-Reactivity	v Key	H: Human					
Trademarks and	Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.					
		All other trademarks a more information.	are the property of t	heir respective owners.	Visit cellsignal.com	/trademarks for	

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.