e at -20C	SQSTM1/p62 (D5L7G) Mouse mAb		ell Signaling сн N о L о g Y®
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com
88		Support:	877-678-TECH (8324)
#88588		Web:	info@cellsignal.com cellsignal.com
#		3 Trask Lane   Danvers   Ma	ssachusetts   01923   USA

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

Applications: WB, IP, IHC-P, IF-IC	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 62	Source/Isotype: Mouse IgG1	UniProt ID: #Q13501	Entrez-Gene Id: 8878		
Product Usage Information Storage	\               	.02% sodium azide. Sto	mmunocytochen um HEPES (pH 7 pre at –20°C. Do	7.5), 150 mM NaCl, 100 not aliquot the antibody	1:200 µg/ml BSA, 50% glyce	0 - 1:1600 - 1:800		
Spacificity / Sanciti		, ,	,	ersion of this product se	·	2 protoin		
Specificity / Sensiti	-	SQSTM1/p62 (D5L7G) Mouse mAb recognizes endogenous levels of total SQSTM1/p62 protein.						
Source / Purificatio		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro220 of human SQSTM1 protein.						
Background	S au in ul th po fo m L <u>y</u> co S	sequestosome 1 (SQST nd autophagy (1-4). It v adependently found to in biquitin, providing a sca ne proteasome or lysos olyubiquitination of TRA primed by SQSTM1 can nembrane protein LC3// ysosomal degradation of onversely, autophagy in QSTM1 and oxidative s	M1, p62) is a ub vas first identifie nteract with PKC affold for several ome (8). Interact AF6 and subsequ be degraded by Atg8, bringing SC of autophagosom hibitors stabilize stress. SQSTM1 nvolved in cellula	iquitin binding protein in d as a protein that binds ζ (6,7). SQSTM1 was s signaling proteins and t ion between SQSTM1 a uent activation of the NF the autophagosome (4, QSTM1-containing proteines leads to a decrease sQSTM1 levels. Studie interacts with KEAP1, v ar responses to oxidative	to the SH2 domain of ubsequently found to in riggering degradation and TRAF6 leads to the -kB pathway (9). Protect 10,11). SQSTM1 bind in aggregates to the a in SQSTM1 levels dure shave demonstrated which is a cytoplasmic	p56Lck (5) and nteract with of proteins through e K63-linked ein aggregates s autophagosomal utophagosome (12). ring autophagy; a link between inhibitor of NRF2, a		
Background Refere	2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	. Kirkin, V. et al. (2009) . Seibenhener, M.L. et a . Komatsu, M. et al. (200 . Bjørkøy, G. et al. (200 . Joung, I. et al. (1996) . Sanchez, P. et al. (1996) . Puls, A. et al. (1997) <i>F</i> . Vadlamudi, R.K. et al. . Wooten, M.W. et al. (200 . Komatsu, M. et al. (200 . Pankiv, S. et al. (2007	al. (2007) FEBS (10) Nat Cell Bio 6) Autophagy 2, Proc Natl Acad 3 (20) Mol Cell Biol Proc Natl Acad S (1996) J Biol Che (2005) J Biol Che (5) J Cell Biol 17 (207) Cell 131, 11	Lett 581, 175-9. 12, 213-23. 138-9. 5ci USA 93, 5991-5. 18, 3069-80. ci USA 94, 6191-6. tem 271, 20235-7. n 280, 35625-9. 1, 603-14. 49-63.				
Species Reactivity	Sp	pecies reactivity is deter	rmined by testing	) in at least one approve	ed application (e.g., we	stern blot).		
Western Blot Buffe		IPORTANT: For western 1% Tween® 20 at 4°C v		membrane with diluted ng, overnight.	primary antibody in 5%	6 w/v BSA, 1X TBS,		

## **Applications Key**

3/23/24, 10:38 AM	SQSTM1/p62 (D5L7G) Mouse mAb (#88588) Datasheet Without Images Cell Signaling Technology WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)				
Cross-Reactivity Key	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>				
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. SignalSilence is a registered trademark of Cell Signaling Technology, Inc. SignalStain is a registered trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.				
Limited Uses	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.				