3/23/24, 10:50 AM Revision 5

e at -20C	SQSTM1/p62 (D6M5X) Rabbit mAb		Cell Signaling
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	ctivity: Sensitivity: M R Endogenous	MW (kDa): 62	Source/Isotype: Rabbit IgG	UniProt ID: #Q64337	Entrez-Gene Id: 18412		
Product Usage Information	Application Western Blotting Immunoprecipitation Immunohistochemistr Immunofluorescence	,	nistry)		0		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensitivity	SQSTM1/p62 (D6M5X	SQSTM1/p62 (D6M5X) Rabbit mAb recognizes endogenous levels of total rodent SQSTM1/p62 pro			TM1/p62 protein.		
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly300 of mouse SQSTM1/p62 protein.					
Background	and autophagy (1-4). I independently found to ubiquitin, providing a s the proteasome or lyso polyubiquitination of T formed by SQSTM1 ca membrane protein LC Lysosomal degradation conversely, autophagy SQSTM1 and oxidative	t was first identifie o interact with PKC caffold for several osome (8). Interac RAF6 and subseq an be degraded by 3/Atg8, bringing S n of autophagosor r inhibitors stabilize e stress. SQSTM1 r involved in cellul	biquitin binding protein in d as a protein that binds CZ (6,7). SQSTM1 was s I signaling proteins and t tion between SQSTM1 a uent activation of the NF the autophagosome (4 QSTM1-containing proteines leads to a decrease e SQSTM1 levels. Studie interacts with KEAP1, w ar responses to oxidative F2 activity.	to the SH2 domain of ubsequently found to in riggering degradation and TRAF6 leads to the F-KB pathway (9). Prote ,10,11). SQSTM1 bind bin aggregates to the a in SQSTM1 levels dur es have 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 Reference	 S 1. Kirkin, V. et al. (2009) 2. Seibenhener, M.L. et al. (2004) 3. Komatsu, M. et al. (2005) 4. Bjørkøy, G. et al. (2005) 5. Joung, I. et al. (1996) 6. Sanchez, P. et al. (1997) 8. Vadlamudi, R.K. et al. 9. Wooten, M.W. et al. 10. Bjørkøy, G. et al. (2001) 11. Komatsu, M. et al. (2001) 12. Pankiv, S. et al. (2001) 	et al. (2007) FEBS 2010) Nat Cell Bio 206) Autophagy 2, 5) Proc Natl Acad 998) Mol Cell Bio 998) Mol Cell Bio 907 Natl Acad S al. (1996) J Biol Che (2005) J Biol Che 205) J Cell Biol 17 2007) Cell 131, 11	Lett 581, 175-9. of 12, 213-23. , 138-9. Sci USA 93, 5991-5. 18, 3069-80. Sci USA 94, 6191-6. hem 271, 20235-7. m 280, 35625-9. 1, 603-14. .49-63.				
Species Reactivity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g., we	estern blot).		
Western Blot Buffer	IMPORTANT: For weste 0.1% Tween® 20 at 4°C		e membrane with diluted ing, overnight.	primary antibody in 5%	6 w/v BSA, 1X TBS,		
Applications Key	WB: Western Blotting IF-IC: Immunofluoresc		itation IHC-P: Immunohi ochemistry)	stochemistry (Paraffin))		

3/23/24, 10:50 AM	SQSTM1/p62 (D6M5X) Rabbit mAb (#23214) Datasheet Without Images Cell Signaling Technology
Cross-Reactivity Key	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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