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#95697

## Phospho-SQSTM1/p62 (Ser349) Antibody



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Applications: W	Reactivity: H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 62	Source/Isotype: Rabbit	<b>UniProt ID:</b> #Q13501	Entrez-Gene Id: 8878
Product Usage Information		<b>Application</b> Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM so 20°C. Do not aliquot t		ö), 150 mM NaCl, 100 μg/	/ml BSA and 50% gl	ycerol. Store at –
Specificity/Sen	sitivity	Phospho-SQSTM1/p62 when phosphorylated		recognizes endogenous	levels of SQSTM1/۱ ا	062 protein only
Species predict based on 100% homology		Rat				
Source / Purific	ation		dues surrounding S	munizing animals with a er349 of human SQSTM cography.		
Background		and autophagy (1-4). I independently found ubiquitin, providing a through the proteasou linked polyubiquitinat aggregates formed by autophagosomal men autophagosome (12). during autophagy; con demonstrated a link b cytoplasmic inhibitor stress (3). Thus, accun	It was first identifie to interact with PKC scaffold for several me or lysosome (8) ion of TRAF6 and so y SQSTM1 can be de nbrane protein LC3 Lysosomal degrada nversely, autophag between SQSTM1 ar of NRF2, a key trans- nulation of SQSTM1 QSTM1 at Ser349 (So	uitin binding protein inv d as a protein that binds (7,6,7). SQSTM1 was sub signaling proteins and t Interaction between SQ ubsequent activation of te graded by the autophag (Atg8, bringing SQSTM1 ation of autophagosome y inhibitors stabilize SQS id oxidative stress. SQST scription factor involved can lead to an increase er351 in mouse) during of 13).	to the SH2 domain osequently found to triggering degradat STM1 and TRAF6 le the NF-κB pathway gosome (4,10,11). So -containing protein the leads to a decreas STM1 levels. Studies M1 interacts with K in cellular response in NRF2 activity.	of p56Lck (5) and interact with ion of proteins ads to the K63- (9). Protein QSTM1 binds aggregates to the se in SQSTM1 levels have EAP1, which is a to oxidative
Background Re	ferences	<ol> <li>Kirkin, V. et al. (2009)</li> <li>Seibenhener, M.L. e</li> <li>Komatsu, M. et al. (2005)</li> <li>Joung, I. et al. (1996)</li> <li>Sanchez, P. et al. (1997)</li> <li>Vadlamudi, R.K. et al</li> <li>Wooten, M.W. et al. (2011)</li> <li>Bjørkøy, G. et al. (2011)</li> <li>Komatsu, M. et al. (2011)</li> <li>Komatsu, M. et al.</li> <li>Pankiv, S. et al. (2011)</li> <li>Ichimura, Y. et al. (2011)</li> </ol>	t al. (2007) FEBS Le 2010) Nat Cell Biol 206) Autophagy 2, 1 3) Proc Natl Acad Sc 208) Mol Cell Biol 18 Proc Natl Acad Sci al. (1996) J Biol Chem (2005) J Biol Chem 2005) J Cell Biol 171, (2007) Cell 131, 114 207) J Biol Chem 282	tt 581, 175-9. 12, 213-23. 38-9. <i>i USA</i> 93, 5991-5. 3, 3069-80. <i>USA</i> 94, 6191-6. <i>n</i> 271, 20235-7. 280, 35625-9. 603-14. 19-63.		
Species Reactiv	/ity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot B	uffer	IMPORTANT: For west TBS, 0.1% Tween® 20		membrane with diluted shaking, overnight.	primary antibody ir	ז 5% w/v BSA, 1X
Applications Ke	ey	W: Western Blotting				

Cross-Reactivity Key	H: Human M: Mouse
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