

13121

Phospho-SQSTM1/p62 (Thr269/Ser272) Antibody



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

Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 62	Source/Isotype: Rabbit	UniProt ID: #Q13501	Entrez-Gene Id: 8878
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100	
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		Phospho-SQSTM1/p62 (Thr269/Ser272) Antibody recognizes endogenous levels of SQSTM1 protein only when phosphorylated at Thr269 and Ser272. This antibody may react with either dually or singly phosphorylated SQSTM1/p62. A background band is detected at 75 kDa in some cell lines.				
Species predic based on 100% homology		Monkey				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr269/Ser272 of human SQSTM1/p62 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		and autophagy (1-4). It independently found to ubiquitin, providing a sthrough the proteason linked polyubiquitination aggregates formed by autophagosomal memautophagosome (12). Use during autophagy; condemonstrated a link becytoplasmic inhibitor ostress (3). Thus, accum	was first identified interact with PKC caffold for several ne or lysosome (8) on of TRAF6 and sugsTM1 can be delated brane protein LC3 yesosomal degradates versely, autophagetween SQSTM1 arf NRF2, a key transulation of SQSTM1	uitin binding protein involution as a protein that binds ζ (6,7). SQSTM1 was subsignaling proteins and subsequent activation of egraded by the autophag γ (Atg8, bringing SQSTM1 ation of autophagosome γ inhibitors stabilize SQST actiption factor involved can lead to an increase d Ser272 during mitosis	s to the SH2 domain osequently found to triggering degradar QSTM1 and TRAF6 le the NF-kB pathway gosome (4,10,11). S -containing protein es leads to a decrea STM1 levels. Studies TM1 interacts with k in cellular response in NRF2 activity.	of p56Lck (5) and interact with cion of proteins eads to the K63-(9). Protein QSTM1 binds aggregates to the se in SQSTM1 levels have (EAP1, which is a se to oxidative
Background References		1. Kirkin, V. et al. (2009) <i>Mol Cell</i> 34, 259-69. 2. Seibenhener, M.L. et al. (2007) <i>FEBS Lett</i> 581, 175-9. 3. Komatsu, M. et al. (2010) <i>Nat Cell Biol</i> 12, 213-23. 4. Bjørkøy, G. et al. (2006) <i>Autophagy</i> 2, 138-9. 5. Joung, I. et al. (1996) <i>Proc Natl Acad Sci USA</i> 93, 5991-5. 6. Sanchez, P. et al. (1998) <i>Mol Cell Biol</i> 18, 3069-80. 7. Puls, A. et al. (1997) <i>Proc Natl Acad Sci USA</i> 94, 6191-6. 8. Vadlamudi, R.K. et al. (1996) <i>J Biol Chem</i> 271, 20235-7. 9. Wooten, M.W. et al. (2005) <i>J Biol Chem</i> 280, 35625-9. 10. Bjørkøy, G. et al. (2005) <i>J Cell Biol</i> 171, 603-14. 11. Komatsu, M. et al. (2007) <i>J Biol Chem</i> 282, 24131-45. 13. Linares, J.F. et al. (2011) <i>Mol Cell Biol</i> 31, 105-17.				

Species Reactivity

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4° C with gentle shaking, overnight.

Applications Key W: Western Blotting **IP**: Immunoprecipitation

Cross-Reactivity Key H: Human M: Mouse R: Rat

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