SQSTM1/p62 (D10E10) Rabbit mAb



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

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Applications: IP, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 62	Source/Isotype: Rabbit IgG	UniProt ID: #Q13501	Entrez-Gene Id: 8878
Product Usage Information		Application Immunoprecipitation Immunofluorescence (Immunocytochemistry)			Dilution 1:50 1:100 - 1:400	
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.				rol and less than
Specificity/Sensitivity		SQSTM1/p62 (D10E10) Rabbit mAb is recommended to detect endogenous levels of total SQSTM1/p62 protein by immunofluorescence. Products SQSTM1/p62 (D5E2) Rabbit mAb #8025 and SQSTM1/p62 Antibody #5114 are preferred for western blot.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human SQSTM1/p62 protein.				
Background		and autophagy (1-4). independently found ubiquitin, providing a through the protease linked polyubiquitina aggregates formed be autophagosomal me autophagosome (12) during autophagy; codemonstrated a link cytoplasmic inhibitor	It was first identifie to interact with PKC ascaffold for severact ome or lysosome (8) ation of TRAF6 and soy SQSTM1 can be dombrane protein LC3. Lysosomal degradonversely, autophag between SQSTM1 art of NRF2, a key trans	uitin binding protein involution binding protein that binds [7] (6,7). SQSTM1 was subsignating proteins and a literaction between SQ ubsequent activation of egraded by the autophar/Atg8, bringing SQSTM1 ation of autophagosome y inhibitors stabilize SQS and oxidative stress. SQST scription factor involved can lead to an increase	s to the SH2 domain osequently found to triggering degrada 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 le in cellular response	of p56Lck (5) and on interact with tion of proteins eads to the K63-(9). Protein QSTM1 binds aggregates to the se in SQSTM1 levels have (EAP1, which is a
Background Ref	erences	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. (2007) <i>Cell Biol</i> 171, 603-14. 11. Komatsu, M. et al. (2007) <i>J Biol Chem</i> 282, 24131-45.				

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key IP

IP: Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key H: Human

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