SQSTM1/p62 (D5E2) Rabbit mAb



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Applications: W, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 62	Source/Isotype: Rabbit IgG	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 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 (D5E2) Rabbit mAb recognizes endogenous levels of total SQSTM1/p62 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly162 of human SQSTM1/p62 protein.				
Background		and autophagy (1-4). It independently found to ubiquitin, providing a subiquitin, providing a subiquitination of the proteasom linked polyubiquitination aggregates formed by autophagosomal members autophagosome (12). Link during autophagy; condemonstrated a link be cytoplasmic inhibitor of	was first identifie o interact with PKC caffold for several e or lysosome (8) on of TRAF6 and so SQSTM1 can be do orane protein LC3 ysosomal degrada versely, autophag tween SQSTM1 ar	uitin binding protein inv d as a protein that binds (7 (6,7). SQSTM1 was sub signaling proteins and to Interaction between SQ ubsequent activation of egraded by the autophag /Atg8, bringing SQSTM1 ation of autophagosome y inhibitors stabilize SQS and oxidative stress. SQST scription factor involved can lead to an increase	to the SH2 domain sequently found to triggering degradal STM1 and TRAF6 letthe NF-kB pathway gosome (4,10,11). S-containing protein is leads to a decreas TM1 levels. Studies TM1 interacts with kin cellular response	of p56Lck (5) and 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 Re	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>J 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).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 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 Mk: Monkey

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