

## 39749

## SQSTM1/p62 (D1Q5S) Rabbit mAb



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

<b>Applications:</b> W, IP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 62	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #Q64337	Entrez-Gene Id: 18412
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:200	
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 (D1Q5S) 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 near the carboxy terminus of human SQSTM1 protein.				
Background		and autophagy (1-4). It independently found to ubiquitin, providing a s through the proteasom linked polyubiquitinatic aggregates formed by autophagosomal mem autophagosome (12). L during autophagy; condemonstrated a link be cytoplasmic inhibitor of	was first identified interact with PKC caffold for several eract or lysosome (8) on of TRAF6 and substantial between SQSTM1 can be deligated by the several eraction of the se	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 thave (EAP1, which is a
Background Re	eferences	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.				

**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  $4^{\circ}$ C with gentle shaking, overnight.

Applications Key

**W:** Western Blotting **IP:** Immunoprecipitation

**Cross-Reactivity Key** 

H: Human M: Mouse R: Rat Mk: Monkey

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