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e at -20C	SQSTM1/p62 Antibody	H.			
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 62	Source: Rabbit	UniProt ID: #Q13501	Entrez-Gene Id: 8878		
Product Usage Information	•	ApplicationDilutionWestern Blotting1:1000						
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu g/ml$ BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity / Sensi	i tivity sqs	SQSTM1/p62 Antibody detects endogenous levels of total SQSTM1/p62 protein.						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly410 of human SQSTM1/p62 protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	and inde ubio the poly form mer Lyso com SQS key	Sequestosome 1 (SQSTM1, p62) is a ubiquitin binding protein involved in cell signaling, oxidative stress, and autophagy (1-4). It was first identified as a protein that binds to the SH2 domain of p56Lck (5) and independently found to interact with PKCζ (6,7). SQSTM1 was subsequently found to interact with ubiquitin, providing a scaffold for several signaling proteins and triggering degradation of proteins through the proteasome or lysosome (8). Interaction between SQSTM1 and TRAF6 leads to the K63-linked polyubiquitination of TRAF6 and subsequent activation of the NF-kB pathway (9). Protein aggregates formed by SQSTM1 can be degraded by the autophagosome (4,10,11). SQSTM1 binds autophagosomal membrane protein LC3/Atg8, bringing SQSTM1-containing protein aggregates to the autophagosome (12). Lysosomal degradation of autophagosomes leads to a decrease in SQSTM1 levels during autophagy; conversely, autophagy inhibitors stabilize SQSTM1 levels. Studies have demonstrated a link between SQSTM1 and oxidative stress. SQSTM1 interacts with KEAP1, which is a cytoplasmic inhibitor of NRF2, a key transcription factor involved in cellular responses to oxidative stress (3). Thus, accumulation of SQSTM1 can lead to an increase in NRF2 activity.						
Background Refe	2. S 3. K 4. B 5. Jo 6. S 7. P 8. V 9. W 10. B 11. K	omatsu, M. et al. (20 jørkøy, G. et al. (200 bung, I. et al. (1996) anchez, P. et al. (19 uls, A. et al. (1997) adlamudi, R.K. et al /ooten, M.W. et al. (200 omatsu, M. et al. (200 omatsu, M. et al. (200	al. (2007) FEBS Le D10) Nat Cell Biol 1 D6) Autophagy 2, 13 Proc Natl Acad Sc 98) Mol Cell Biol 18 Proc Natl Acad Sci (1996) J Biol Chen 2005) J Biol Chem D5) J Cell Biol 171, 007) Cell 131, 1149	FEBS Lett 581, 175-9. cell Biol 12, 213-23. ragy 2, 138-9. Acad Sci USA 93, 5991-5. cell Biol 18, 3069-80. Acad Sci USA 94, 6191-6. Biol Chem 271, 20235-7. col Chem 280, 35625-9. Biol 171, 603-14.				
Species Reactivity	y Spec	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot Buffer			: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, ® 20 at 4°C with gentle shaking, overnight.					
Applications Key	WB:	WB: Western Blotting						
Cross-Reactivity I	X : Xe	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected						

Trademarks and Patents

Limited Uses

SQSTM1/p62 Antibody (#5114) Datasheet Without Images Cell Signaling Technology

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