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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 83,97	Source/Isotype: Rabbit IgG	UniProt ID: #Q13438	Entrez-Gene Id: 10956		
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50			
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		OS-9 (D8P4G) Rabbit mAb recognizes endogenous levels of total OS-9 protein. This antibody reacts with OS-9 isoform 1 (OS-9-1) and OS-9 isoform 2 (OS-9-2).						
Species predic based on 100% homology		Bovine, Horse						
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human OS-9 protein.						
Background		Amplified in Osteosarcoma 9 (OS-9) was identified as a gene that is frequently amplified in human sarcomas (1). OS-9 is an N-glycosylated ER resident protein that harbors a mannose-6-phosphate receptor homology (MRH) domain and plays a critical role in mammalian ER quality control, in part, by functioning as a lectin. There are two major isoforms of OS-9 (OS-9-1, OS-9-2) that are generated through alternative splicing of mRNA (2). The expression of both OS-9 isoforms is enhanced upon activation of the IRE1/XBP1 pathway in cells exposed to acute ER stress. It is postulated that OS-9 serves as a retention factor for glycosylated and nonglycosylated, misfolded proteins, preventing their progression through the secretory pathway (3,4). Furthermore, OS-9 promotes the removal of misfolded proteins from the ER lumen and their subsequent proteasome-dependent degradation via its association with the Hrd1-SEL1L ubiquitin ligase complex (5).						
Background R	eferences	1. Su, Y.A. et al. (1996) <i>Mol Carcinog</i> 15, 270-5. 2. Kimura, Y. et al. (1998) <i>J Biochem</i> 123, 876-82. 3. Bernasconi, R. et al. (2008) <i>J Biol Chem</i> 283, 16446-54. 4. Alcock, F. and Swanton, E. (2009) <i>J Mol Biol</i> 385, 1032-42. 5. Christianson, J.C. et al. (2008) <i>Nat Cell Biol</i> 10, 272-82.						
Species Reacti	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot E	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.				n 5% w/v BSA, 1X		
Applications K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat Mk: Monkey						
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