

#5937
Store at -20C**VMS1 (D10E6) Rabbit mAb**

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	M	Endogenous	100	Rabbit IgG	#Q80UU1	52231
Product Usage Information	Application				Dilution	
	Western Blotting				1:1000	
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	VMS1 (D10E6) Rabbit mAb detects endogenous levels of total VMS1 protein.					
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly332 of mouse VMS1 protein.					
Background	Mitochondria are membrane-bound subcellular organelles critical to many functions in eukaryotic cells (1). Several mechanisms have been found to play a role in mitochondrial quality control (2). A recent study identified mitochondria-associated protein degradation as one such mechanism (1,2). The study showed that VMS1 (VCP/Cdc48-associated mitochondrial stress-responsive) interacts with VCP/Cdc48 and Npl4, two components in the endoplasmic reticulum-associated protein degradation pathway, and mediates the degradation of damaged mitochondrial proteins under stress conditions (1). Defective VMS1 compromises mitochondrial functions and cell viability (1).					
Background References	<ol style="list-style-type: none"> 1. Heo, J.M. et al. (2010) <i>Mol Cell</i> 40, 465-80. 2. Chatenay-Lapointe, M. and Shadel, G.S. (2010) <i>Cell Metab</i> 12, 559-60. 					

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
Cross-Reactivity Key	M: Mouse
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