

VMS1 (D10E6) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	M	Endogenous	100	Rabbit IgG	#Q80UU1	52231

Product Usage Information**Application**

Western Blotting

Dilution

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 mitochondria 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

1. Heo, J.M. et al. (2010) *Mol Cell* 40, 465-80.
2. Chatenay-Lapointe, M. and Shadel, G.S. (2010) *Cell Metab* 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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