

## 3592

**Limited Uses** 

## Myosin VI (D5Y5A) Rabbit mAb



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Applications: W	<b>Reactivity:</b> H Dg	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 150	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q9UM54	Entrez-Gene Id: 4646
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 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		Myosin VI (D5Y5A) Rabbit mAb recognizes endogenous levels of total myosin VI protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg1131 of human myosin VI protein.				
Background		The myosin family of motor proteins drive ATP-dependent actin-based motility in eukaryotic cells and contain a conserved amino-terminal motor domain (reviewed in 1,2).				
		organelles within the its cargo along actin domain structure allo	cell, endocytosis, ar filaments is unique a ows it to take larger	d-directed myosin invol nd organelle biogenesis among myosin family m than predicted steps alo	(3-6). The movement embers in its mech ong the actin filame	nt of myosin VI and anism; its tail nt (reviewed in 1,7).
		Myosin VI has been shown to regulate the polarized delivery of proteins to specialized subcellular locations, including the delivery of EGFR to the leading edge of migrating cells (8), as well as the delivery of specialized axonal proteins in neurons (9). Myosin VI has also been shown to mediate activity of the tumor suppressor p53 during DNA damage (10,11).				
Background References		1. Sweeney, H.L. and 2. Nambiar, R. et al. (2 3. Bond, L.M. et al. (2 4. Aschenbrenner, L. 5. Loubéry, S. et al. (2 6. Ameen, N. and Apo 7. Spudich, J.A. and Si 8. Chibalina, M.V. et a 9. Lewis, T.L. et al. (20 10. Jung, E.J. et al. (20 11. Cho, S.J. and Cher	2010) Cell Mol Life So 2011) Mol Biol Cell 22 et al. (2004) Mol Biol 2012) Traffic 13, 665-10 2012) daca, G. (2007) Trafic 2013 varamakrishnan, S. 2013 II. (2010) Traffic 11, 1 2011) PLoS Biol 9, e10 206) Mol Cell Biol 26,	ci 67, 1239-54. , 54-65.   Cell 15, 2253-63.   BO.   Given and the serving of the	<i>Biol</i> 11, 128-37.	
Species Reactivity		Species reactivity is d	etermined by testing	g in at least one approve	ed 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		H: Human <b>Dg</b> : Dog				
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