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Myosin Va Antibody Image: Cell Signaling Technology 0rders: 877-616-CELL (2355)
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Applications: W, IP, IF-F	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 207	Source/Isotype: Rabbit	UniProt ID: #Q99104	Entrez-Gene Id: 17918
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence (Frozen)			Dilution 1:1000 1:100 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Myosin Va Antibody detects endogenous levels of total myosin Va heavy chain. Based on sequence homology, the antibody is expected to detect all known myosin Va splice variants.				
Species predicted to react based on 100% sequence homology		Monkey, Chicken, Pig				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human myosin Va.				
Background		Myosin Va is a molecular motor protein involved in the transport of organelles, vesicles and other cellular cargo along actin filaments (reviewed in 1). The molecule consists of two identical heavy chains, which dimerize via helical domains in a coiled coil structure. The amino-terminal motor domains of the heavy chains contain both the ATPase and the actin-binding activities of myosin Va. The globular tail domains act in a regulatory capacity, binding the myosin Va cargo (2) or inhibiting motor activity by binding the head domains and preventing ATP consumption (3). Mutation of the murine dilute gene, which encodes myosin Va, causes defects in coat pigmentation as well as severe neurological defects (4). In melanocytes, the coiled coil structure of myosin Va is important in regulating the trafficking of melanosomes in conjunction with melanophilin and Rab27a (5). Myosin Va regulates trafficking and exocytosis of secretory granules in neuroendocrine cells (reviewed in 6) as well as RNA transport and distribution (7).				
Background Re	eferences	1. Desnos, C. et al. (200 2. Wu, X. et al. (1997) <i>J</i> 3. Li, X.D. et al. (2006) <i>J</i> 4. Mercer, J.A. et al. (199 5. Hume, A.N. et al. (200 6. Eichler, T.W. et al. (200 7. Salerno, V.P. et al. (200	7) Biol Cell 99, 411 Cell Sci 110 (Pt 7), 8 Biol Chem 281, 217 91) Nature 349, 709 06) Mol Biol Cell 17 06) Biochem Soc Ti 908) Cell Motil Cyto	-23. 347-59. 789-98. 9-13. 7, 4720-35. <i>rans</i> 34, 671-4. <i>skeleton</i> 65, 422-33.		
Spacios Boastin	/ity/	Spacios reactivity is dat	ormined by testing	in at least one approve	ad application (o.g.	wastara blat)
	/ity			g in at least one approve		western blot).
Western Blot Buffer		IMPORIANT: 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 IP: Immunoprecipitation IF-F: Immunofluorescence (Frozen)				
Cross-Reactivity Key		H: Human M: Mouse R: Rat				
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