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ATP6V1B2 (D2F9R) Rabbit mAb



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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 55	Source/Isotype: Rabbit IgG	UniProt ID: #P21281	Entrez-Gene Id: 526			
Product Usage Information	9	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 tha 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				ol and less than			
Specificity/Sensitivity		ATP6V1B2 (D2F9R) Rabbit mAb recognizes endogenous levels of total ATP6V1B2 protein. This antibody does not cross-react with ATP6V1B1 protein.							
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human ATP6V1B2 protein.							
Background		Eukaryotic cells contain ATP-driven proton pumps known as vacuolar H+-ATPases (V-ATPases) that acidify intracellular compartments and translocate protons across the plasma membrane (1,2). Intracellular v-ATPases play an important role in endocytosis and intracellular membrane trafficking, while plasma membrane v-ATPases are important in processes such as urinary acidification and bone resorption (1,2). Vacuolar ATPase enzymes are large, heteromultimeric protein complexes with component proteins found in either the V1 peripheral domain or the V0 integral domain (2). The cytoplasmic V1 domain contains a hexamer of A and B catalytic subunits, as well as a number of other protein subunits required for ATPase assembly and ATP hydrolysis. The integral V0 v-ATPase domain exhibits protein translocase activity and is responsible for transport of protons across the membrane (2). Research studies show that the v-ATPases ATP6V0c, ATP6V0d1, ATP6V1A, ATP6V1B2, and ATP6V1D interact with the Ragulator protein complex and are essential for amino acid induced activation of mTORC1 on the surface of lysosomes (3). Two isoforms of the B subunit are found in humans, ATP6V1B1 and ATP6V1B2. The ATP6V1B1 protein is expressed primarily in the kidney, with mutations in the corresponding gene responsible for a form of renal tubular acidosis associated with progressive hearing loss (4,5). ATP6V1B2 protein exhibits a broader range of expression, localized to kidney, brain, pancreas, and other tissues (4).							
Background Re	eferences	1. Marshansky, V. and Futai, M. (2008) <i>Curr Opin Cell Biol</i> 20, 415-26. 2. Jefferies, K.C. et al. (2008) <i>Arch Biochem Biophys</i> 476, 33-42. 3. Zoncu, R. et al. (2011) <i>Science</i> 334, 678-83. 4. van Hille, B. et al. (1994) <i>Biochem J</i> 303 (Pt 1), 191-8. 5. Karet, F.E. et al. (1999) <i>Nat Genet</i> 21, 84-90.							
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g., v	western blot).			
Western Blot E	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.							
Applications K	ey	W: Western Blotting							
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat Mk: Monkey							
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