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ATP2A2	ntibody									
Store					Orders:	877-616-CELL (2355) orders@cellsignal.com				
8					Support:	877-678-TECH (8324)				
#4388					Web:	info@cellsignal.com cellsignal.com				
#				3 Trask	Lane Danvers Ma	ssachusetts 01923 USA				
For Research Use Only. Not for Use in Diagnostic Procedures.										
Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 114, 140	Source: Rabbit	UniProt ID: #P16615	Entrez-Gene Id: 488				

WB	H M R Mk	Endogenous	114, 140	Rabbit	#P16615	488			
Product Usage Information	-	plication stern Blotting			Dilution 1:1000				
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 / Sensit	i vity ATP	ATP2A2/SERCA2 Antibody detects endogenous levels of total ATP2A2/SERCA2 protein.							
Source / Purificatio	ource / Purification Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to sequence around Leu32 of human ATP2A2/SERCA2. Antibodies are purified by protein A and peptide affinity chromatography.								
Background	The ATP2A2 (SERCA2) calcium pump is one of several sarcoplasmic and endoplasmic reticulum Ca2 ATPases responsible for regulating calcium transport across intracellular membranes (1). Multiple isofe have been isolated, with ATP2A2a (SERCA2a) found predominantly in the sarcoplasmic reticulum of muscle cells and ATP2A2b (SERCA2b) more ubiquitously expressed in the endoplasmic reticulum of r cell types (2). An isoform containing a truncated carboxy region (ATP2A2c) is expressed in epithelial a hematopoietic cell lines and may be involved in monocyte differentiation (3). Post-translational modific of ATP2A2 (SERCA2), including phosphorylation and tyrosine nitration, modify Ca2+ -ATPase activity calcium transport (4,5). Mutation in the corresponding ATP2A2 (SERCA2) gene results in Darier disea skin disorder characterized by the presence of dark, keratotic papules or rash found on the head and t (6).								
Background References 1. Vangheluwe, P. et al. (2005) Cell Calcium 38, 291-302. 2. de Smedt, H. et al. (1991) J Biol Chem 266, 7092-5. 3. Gélébart, P. et al. (2003) Biochem Biophys Res Commun 303, 676-84. 4. Hawkins, C. et al. (1995) Mol Cell Biochem 142, 131-8. 5. Viner, R.I. et al. (1999) Biochem J 340 (Pt 3), 657-69. 6. Sakuntabhai, A. et al. (1999) Hum Mol Genet 8, 1611-9.									
Species Reactivity	Spec	ies reactivity is dete	rmined by testing i	n at least one appro	ved application (e.g., wes	tern blot).			
Western Blot Buffe		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	WB:	Western Blotting							
Cross-Reactivity K	Activity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected								
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ATP2A2/SERCA2 Antibody (#4388) Datasheet Without Images Cell Signaling Technology

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