Revision 1

Store at -20C

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ATP2A2/SERCA2 Antibody	T E	Cell Signaling		
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8887 8887 W For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 114, 140	Source/Isotype: Rabbit	UniProt ID: #P16615	Entrez-Gene Id: 488
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 and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sen	sitivity ATP2A2/SERCA2 Antibody detects endogenous levels of total ATP2A2/SERCA2 protein.		٦.			
Source / Purific	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to a 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 Ca ²⁺ - ATPases responsible for regulating calcium transport across intracellular membranes (1). Multiple isoforms 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 most cell types (2). An isoform containing a truncated carboxy region (ATP2A2c) is expressed in epithelial and hematopoietic cell lines and may be involved in monocyte differentiation (3). Post-translational modification of ATP2A2 (SERCA2), including phosphorylation and tyrosine nitration, modify Ca ²⁺ -ATPase activity and calcium transport (4,5). Mutation in the corresponding ATP2A2 (SERCA2) gene results in Darier disease, a skin disorder characterized by the presence of dark, keratotic papules or rash found on the head and torso (6).				
Background Re	eferences	2. de Smedt, H. et al. (3. Gélébart, P. et al. (20 4. Hawkins, C. et al. (10 5. Viner, R.I. et al. (199	angheluwe, P. et al. (2005) <i>Cell Calcium</i> 38, 291-302. e Smedt, H. et al. (1991) <i>J Biol Chem</i> 266, 7092-5. élébart, P. et al. (2003) <i>Biochem Biophys Res Commun</i> 303, 676-84. awkins, C. et al. (1995) <i>Mol Cell Biochem</i> 142, 131-8. iner, R.I. et al. (1999) <i>Biochem J</i> 340 (Pt 3), 657-69. akuntabhai, A. et al. (1999) <i>Hum Mol Genet</i> 8, 1611-9.			
Species Reactiv	/ity	Species reactivity is de	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).
Western Blot B	uffer		estern blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X 20 at 4°C with gentle shaking, overnight.			
Applications Ke	ey	W: Western Blotting				
Cross-Reactivit	у Кеу	H: Human M: Mouse I	R: Rat Mk: Monkey			
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