ATP2A1/SERCA1 (A988) Antibody





Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: M R	Sensitivity: Endogenous	MW (kDa): 100	Source/Isotype: Rabbit	UniProt ID: #O14983	Entrez-Gene Id: 487		
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/Sensitivity		ATP2A1/SERCA1 (A988) Antibody detects endogenous levels of total ATP2A1/SERCA1 protein.						
Source / Purifi	Source / Purification Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresp residues surrounding Ala988 of mouse ATP2A1/SERCA1 protein. Antibodies are purified by p and peptide affinity chromatography.							
Background		Sarcoplasmic and endoplasmic reticulum Ca ²⁺ ATPases (SERCA) are members of a highly conserved family of Ca ²⁺ pumps (1). SERCA pumps transport Ca ²⁺ from the cytosol to the sarcoplasmic and endoplasmic reticulum lumen against a large concentration gradient (1). ATP2A1 (SERCA1) is a fast-twitch, skeletal muscle sarcoplasmic reticulum Ca ²⁺ ATPase (2). Research studies have shown that mutations in the ATP2A1 gene cause an autosomal recessive muscle disorder known as Brody myopathy, which is characterized by muscle cramping and impaired muscle relaxation associated with exercise (1-3).						
Background Re	eferences	1. Hovnanian, A. (2007) <i>Subcell Biochem</i> 45, 337-63. 2. Odermatt, A. et al. (1996) <i>Nat Genet</i> 14, 191-4. 3. Odermatt, A. et al. (2000) <i>Hum Genet</i> 106, 482-91.						
Species Reacti	vity	Species reactivity is de	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot E	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 K	ey	W: Western Blotting						
Cross-Reactivit	ty Key	M: Mouse R: Rat						
Trademarks ar	nd Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						
		All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.						
Limited Uses		Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.						
		approved, cleared, or purpose. Customer sh any manner that conf Customer as the end- diagnostic, prophylact component) or other sell, license, loan, don	licensed by the FDA hall not use any Pro- licts with its labeling user and solely for a tic or therapeutic pur commercial purpos- late or otherwise tra	se Only or a similar labe or other regulatory for duct for any diagnostic of statement. Products so research and developme urposes, or any purchas, e, requires a separate lio ansfer or make available her materials, or use the	eign or domestic er or therapeutic purp old or licensed by C ent uses. Any use of e of Product for res cense from CST. Cus any Product to any	ntity, for any ose, or otherwise in ST are provided for Product for ale (alone or as a stomer shall (a) not y third party,		

commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.