Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:		
For Research Use Or	nly. Not for Use in	Diagnostic Proc	edures.					
#				3 Trask	Lane   Danvers   Ma	ssachusetts   01923   USA		
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at	/SERCA1 (A	A988) Antik	88) Antibody					

Applications: WB	Reactivity: M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 100	Source: Rabbit	UniProt ID: #014983	Entrez-Gene Id: 487			
Product Usage Information		plication stern Blotting			Dilution 1:1000				
Storage	Sup	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. St 20°C. Do not aliguot the antibody.							
Specificity / Sens	<b>itivity</b> ATP	ATP2A1/SERCA1 (A988) Antibody detects endogenous levels of total ATP2A1/SERCA1 protein.							
Source / Purificat	resid	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala988 of mouse ATP2A1/SERCA1 protein. Antibodies are purified by protein A and peptide affinity chromatography.							
Background	fami endo twito muta	Sarcoplasmic and endoplasmic reticulum Ca2+ ATPases (SERCA) are members of a highly conserved family of Ca2+ pumps (1). SERCA pumps transport Ca2+ 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 Ca2+ 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 Refe	2. 0	ovnanian, A. (2007) dermatt, A. et al. (1 dermatt, A. et al. (2	996) Nat Genet 14	, 191-4.					
Species Reactivit	t <b>y</b> Spec	ies reactivity is dete	ermined by testing i	n at least one appro	oved application (e.g., w	estern blot).			
Western Blot Buf		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TB 0.1% Tween® 20 at 4°C with gentle shaking, overnight.							
Applications Key	WB:	Western Blotting							
Cross-Reactivity	Σ <b>Χ:</b> Χε	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>							
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ATP2A1/SERCA1 (A988) Antibody (#4274) Datasheet Without Images Cell Signaling Technology

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