For Research Use Only

ATP2A1 Polyclonal antibody Catalog Number:22361-1-AP 11 Publications

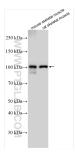


Basic Information	Catalog Number: 22361-1-AP	GenBank Accession Number: BC037354		Purification Method: Antigen Affinity purified	
	Concentration:	GenelD (NC	BI):	Recommended Dilutions: WB 1:20000-1:100000 IP 0.5-4.0 ug for 1.0-3.0 mg of total	
	800 ug/ml Source:	487 UNIPROT IE).		
	Rabbit Isotype: IgG Immunogen Catalog Number: AG17944	014983		protein lysate IHC 1:50-1:500	
		Full Name: ATPase, Ca muscle, fas	++ transporting, cardiac t twitch 1	ine 1.501.500	
		Calculated MW: 1001 aa, 110 kDa			
		Observed N 116 kDa	1W:		
Applications	WB, IHC, IP, ELISA WB : moust Cited Applications: tissue WB, IHC, IF IP : mouse Species Specificity: IHC : human human mouse rat IHC : human		Positive Con	trols:	
			tissue	use skeletal muscle tissue, rat skeletal muscle	
			IHC : human	skeletal muscle tissue, an skeletal muscle tissue, human heart	
	Cited Species: human, mouse, pig, chicken				
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
Background Information	ATP2A1 also known as SERCA1, encodes one of the SERCA Ca(2+)-ATPases, which are intracellular pumps located in the sarcoplasmic or endoplasmic reticula of muscle cells. This enzyme catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol to the sarcoplasmic reticulum lumen and is involved in muscular excitation and contraction. Mutations in ATP2A1 cause some autosomal recessive forms of Brody disease(PMID: 23911890, 10914677).				
Notable Publications	Author	Pubmed ID	Journal	Application	
	Sijie Wang	36216077	Physiol Behav	WB	
	Jie Yang	30334551	Metallomics	WB	
	Nagakatsu Harada	32451822	J Muscle Res Cell Mo	otil WB	
Storage	Storage: Store at -20°C. Stable for one yes Storage Buffer: PBS with 0.02% sodium azide ar		U 77		

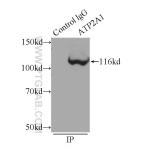
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 22361-1-AP (ATP2A1 antibody) at dilution of 1:120000 incubated at room temperature for 1.5 hours.



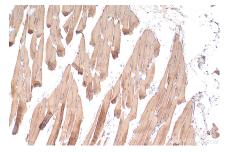
IP result of anti-ATP2A1 (IP:22361-1-AP, 5ug; Detection:22361-1-AP 1:700) with mouse skeletal muscle tissue lysate 2160ug.



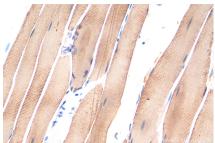
Immunohistochemical analysis of paraffinembedded human skeletal muscle tissue slide using 22361-1-AP (ATP2A1 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffinembedded human skeletal muscle tissue slide using 22361-1-AP (ATP2A1 Antibody) at dilution of 1:200 (under 40x lens).



Immunohistochemical analysis of paraffinembedded mouse skeletal muscle tissue slide using 22361-1-AP (ATP2A1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse skeletal muscle tissue slide using 22361-1-AP (ATP2A1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).