For Research Use Only

CRLS1-Specific Polyclonal antibody

Catalog Number:14845-1-AP

Featured Product

11 Publications

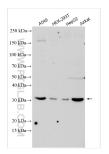


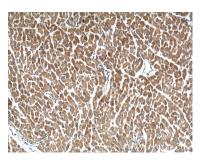
Basic Information	Catalog Number: GenBank Accession Number: 14845-1-AP NM_019095		sion Number:	Purification Method: Antigen affinity purification	
	Size:	e: GenelD (NCBI):		Recommended Dilutions: WB 1:500-1:3000 IHC 1:50-1:500	
	400 µ g/ml 54675				
	Source: Rabbit				
	Isotype: Full Name: IgG cardiolipin synthase 1 Calculated MW: 33 kDa		thase 1		
			t:		
		Observed MW: 32 kDa			
Applications	Tested Applications: Positive Controls: IHC, WB, ELISA NWB, A 5 (0 cells UE(2007) cells UE(2007)				
	Cited Applications: cells			49 cells, HEK-293T cells, HepG2 cells, Jurkat	
	WB IF			nan heart tissue, human liver cancer tissue,	
	Species Specificity: human skeletal muscle tissue				
	Cited Species: human, rat, mouse				
	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	Cardiolipin (CL) is a mitochondrial-specific double negatively charged phospholipid which is intricately involved regulating bioenergetic efficiency. In eukaryotes, CL is synthesized by cardiolipin synthase (CRLS1 or CLS1) which catalyzes the reversible phosphatidyl group transfer from one phosphatidylglycerol molecule to another to form C and glycerol. Recently it has been reported that transgenic expression of CRLS1 accelerates cardiolipin remodeling improves mitochondrial function, modulates mitochondrial signaling, and attenuates mitochondrial dysfunction in diabetes, thereby identifying CRLS1 as a novel therapeutic target to attenuate mitochondrial dysfunction in diabetic myocardium. The predicted molecular weight of CRLS1 is around 32-35 kDa, while a 50 kDa protein with CRLS1 activity had been observed in liver isolation, which may represent an isoform of CRLS1 (20652826).				
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Notable Publications	• •	-	Journal		
Notable Publications	CRLS1 activity had been obs	served in liver isolation, w			S1 (20652826).
Notable Publications	CRLS1 activity had been obs	erved in liver isolation, w Pubmed ID	Journal		S1 (20652826). Application
Notable Publications	CRLS1 activity had been obs Author Laure Peyta	erved in liver isolation, w Pubmed ID 26327596	Journal Biochim Biophys	Acta	S1 (20652826). Application WB

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

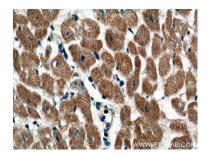
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data





Various lysates were subjected to SDS PAGE followed by western blot with 14845-1-AP (CRLS1-Specific antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours. Immunohistochemical analysis of paraffinembedded human heart tissue slide using 14845-1-AP (CRLS1-Specific Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffinembedded human heart tissue slide using 14845-1-AP (CRLS1-Specific Antibody) at dilution of 1:200 (under 40x lens).