For Research Use Only

UCP1 Polyclonal antibody Catalog Number:23673-1-AP Featured Product

118 Publications

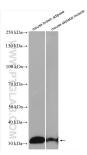


Basic Information	Catalog Number: 23673-1-AP	GenBank Accession Number: BC098168	Purification Method: Antigen affinity purification	
	Size: 150ul, Concentration: 1000 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG20388	GenelD (NCBI):	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:50-1:500	
		UNIPROT ID:		
		P25874		
		Full Name: uncoupling protein 1 (mitochondrial, proton carrier)		
				Calculated MW: 307 aa, 33 kDa
		Observed MW: 33 kDa		
		Applications	Tested Applications:	Positive Co
Applications	WB, IHC, ELISA	WB : mouse brown adipose tissue, mouse skeletal		
	Cited Applications:	muscle tissue		
	WB, IHC, IF	IHC : mous	IHC : mouse brown adipose tissue, rat brain tissue	
	Species Specificity: human, mouse, rat			
	Cited Species: human, mouse, rat, bovine, hamster, goat			
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			
	UCP-1 (Mitochondrial uncoupling protein 1), is a mitochondrial transporter protein that creates proton leaks across the inner mitochondrial membrane, thus uncoupling oxidative phosphorylation from ATP synthesis. It has been identified a key molecule for metabolic thermogenesis to avoid an excess of fat accumulation. UCP-1 expression usually restricted to brown adipose when induced by cold exposure and thyroid hormone.			
Background Information	the inner mitochondrial membrane, identified a key molecule for metab	thus uncoupling oxidative phosphor olic thermogenesis to avoid an exce	ylation from ATP synthesis. It has been ess of fat accumulation. UCP-1 expression	
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Background Information Notable Publications	the inner mitochondrial membrane, identified a key molecule for metab usually restricted to brown adipose v Author Put Xiaoqian Zeng 361	thus uncoupling oxidative phosphor olic thermogenesis to avoid an exce when induced by cold exposure and bmed ID Journal	ylation from ATP synthesis. It has been ess of fat accumulation. UCP-1 expression thyroid hormone. Application	
	the inner mitochondrial membrane, identified a key molecule for metab- usually restricted to brown adipose w Author Put Xiaoqian Zeng 361 Lijun Zhao 302	thus uncoupling oxidative phosphor olic thermogenesis to avoid an exce when induced by cold exposure and bmed ID Journal 169214 Food Funct	ylation from ATP synthesis. It has been ess of fat accumulation. UCP-1 expression thyroid hormone. Application WB,IHC	
	the inner mitochondrial membrane, identified a key molecule for metab- usually restricted to brown adipose w Author Put Xiaoqian Zeng 363 Lijun Zhao 302 Ping He 314 Storage: Stora et -20°C. Stable for one year af Storage Buffer: PBS with 0.02% sodium azide and 50	thus uncoupling oxidative phosphor olic thermogenesis to avoid an exce when induced by cold exposure and bmed ID Journal 169214 Food Funct 258363 Front Pharmacol 484405 Biomolecules	ylation from ATP synthesis. It has been ess of fat accumulation. UCP-1 expression thyroid hormone. Application WB,IHC IHC	
Notable Publications	the inner mitochondrial membrane, identified a key molecule for metabusually restricted to brown adipose w Author Put Xiaoqian Zeng 363 Lijun Zhao 302 Ping He 314 Storage: Stora at -20°C. Stable for one year af Storage Buffer:	thus uncoupling oxidative phosphor olic thermogenesis to avoid an exce when induced by cold exposure and bmed ID Journal 169214 Food Funct 258363 Front Pharmacol 484405 Biomolecules	ylation from ATP synthesis. It has been ess of fat accumulation. UCP-1 expression thyroid hormone. Application WB,IHC IHC	

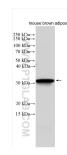
For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

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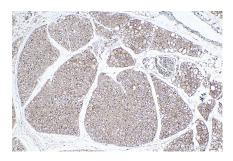
Selected Validation Data



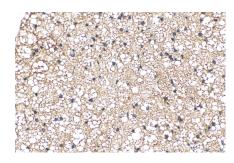
Various lysates were subjected to SDS PAGE followed by western blot with 23673-1-AP (UCP1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



mouse brown adipose tissue were subjected to SDS PAGE followed by western blot with 23673-1-AP (UCP1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded mouse brown adipose tissue slide using 23673-1-AP (UCP1 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 brown adipose tissue slide using 23673-1-AP (UCP1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).