

For Research Use Only

CRAT Polyclonal antibody

Catalog Number: 15170-1-AP

Featured Product

15 Publications



Basic Information

Catalog Number:	15170-1-AP	GenBank Accession Number:	BC000723	Purification Method:	Antigen affinity purification
Concentration:	350 ug/ml	GenID (NCBI):	1384	Recommended Dilutions:	WB: 1:800-1:8000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC: 1:250-1:1000
Source:	Rabbit	UNIPROT ID:	P43155		
Isotype:	IgG	Full Name:	carnitine acetyltransferase		
Immunogen Catalog Number:	AG7422	Calculated MW:	71 kDa		
		Observed MW:	62-68 kDa		

Applications

Tested Applications:	WB, IHC, IP, ELISA	Positive Controls:	WB: mouse skeletal muscle tissue, mouse heart tissue, rat skeletal muscle, rat heart tissue
Cited Applications:	WB	IP:	mouse skeletal muscle tissue,
Species Specificity:	human, mouse, rat	IHC:	mouse brain tissue, mouse liver tissue
Cited Species:	human, mouse, rat, sheep, goat		
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

CRAT, also named as CAT1, belongs to the carnitine/choline acetyltransferase family. It is specific for short chain fatty acids. CRAT seems to affect the flux through the pyruvate dehydrogenase complex. It may be involved as well in the transport of acetyl-CoA into mitochondria. Carnitine palmitoyltransferase (CPT) deficiencies are common disorders of mitochondrial fatty acid oxidation. The CPT system is made up of two separate proteins located in the outer (CPT1) and inner (CPT2) mitochondrial membranes. CRAT is an active forms for carnitine acetyltransferase. This antibody can bind the close sequences genes.

Notable Publications

Author	Pubmed ID	Journal	Application
Joongyu D Song	33035493	Cell Metab	WB
Xutong Sun	32554303	Redox Biol	WB
Guoyu Yu	29535221	Cancer Res	

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

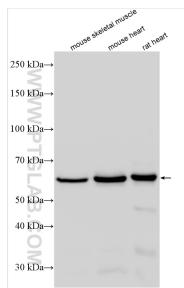
T: 4006900926

E: Proteintech-CN@ptglab.com

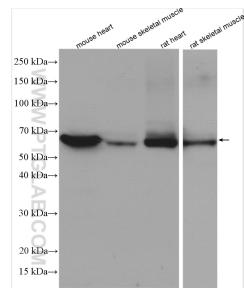
W: ptgcn.com

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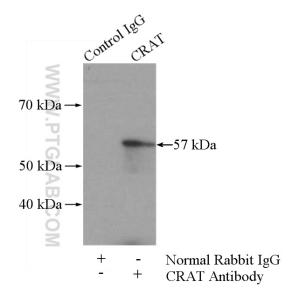
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 15170-1-AP (CRAT antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



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IP result of anti-CRAT (IP:15170-1-AP, 4ug; Detection:15170-1-AP 1:300) with mouse skeletal muscle tissue lysate 3600ug.

