

For Research Use Only

CRAT Polyclonal antibody

Catalog Number: 15170-1-AP

Featured Product

8 Publications



Basic Information

Catalog Number:

15170-1-AP

Size:

150ul, Concentration: 350 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7422

GenBank Accession Number:

BC000723

GeneID (NCBI):

1384

Full Name:

carnitine acetyltransferase

Calculated MW:

71 kDa

Observed MW:

55-68 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 µg for IP and 1:200-1:1000 for WB

Applications

Tested Applications:

IP, WB, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

goat, mouse, rat, sheep

Positive Controls:

WB: mouse heart tissue, mouse skeletal muscle tissue, rat heart, rat skeletal muscle, mouse heart

IP: mouse skeletal muscle tissue,

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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

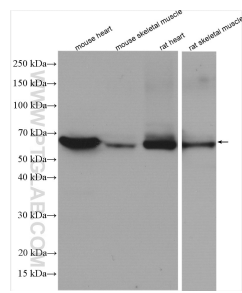
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

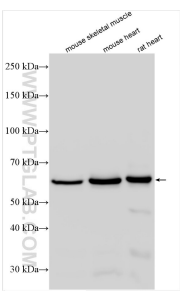
E: proteintech@ptglab.com
W: ptglab.com

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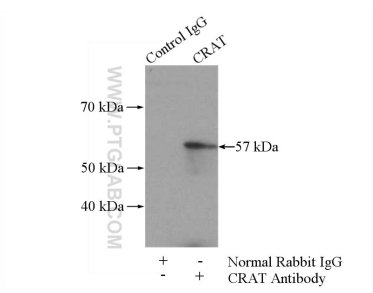
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 15170-1-AP (CRAT antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



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.



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