

For Research Use Only

CARNS1 Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number: 88342-1-PBS



Basic Information

Catalog Number: 88342-1-PBS	GenBank Accession Number: BC036557	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 57571	CloneNo.: 260860B7
Isotype: IgG	UNIPROT ID: A5YM72	
Immunogen Catalog Number: AG22761	Full Name: ATP-grasp domain containing 1	
	Calculated MW: 827 aa, 88 kDa	
	Observed MW: 88-103 kDa	

Applications

Tested Applications:
WB, Cytometric bead array, Indirect ELISA

Species Specificity:
human

Background Information

CARNS1, located at human chromosome 11q13.2, encodes carnosine synthase 1 belonging to the ATP-grasp ATPase family (EC 6.3.2.11). It mediates ATP-dependent synthesis of carnosine in skeletal muscle and homocarnosine in the central nervous system, two vital histidine-containing dipeptides with antioxidant and pH-buffering effects. This gene is highly conserved across vertebrates and preferentially expressed in brain and muscle tissues. Aberrant CARNS1 expression disturbs dipeptide homeostasis, linking to aging-related sensory decline and tumor progression via impaired carnosine-mediated tumor suppression. (PMID: 20097752)

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

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

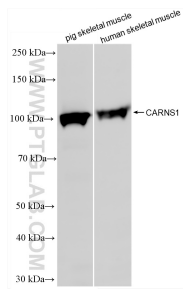
T: 4006900926

E: Proteintech-CN@ptglab.com

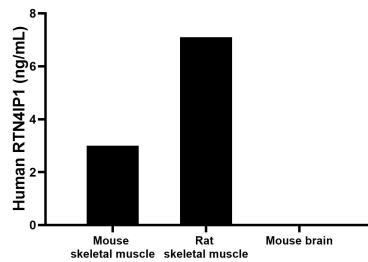
W: ptgcn.com

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

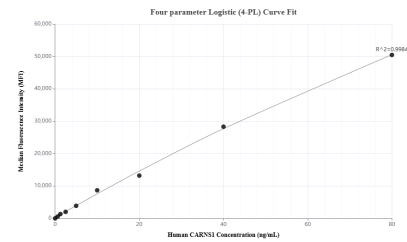
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 88342-1-RR (ATPGD1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 88342-1-PBS in a different storage buffer formulation.



The mean CARN1 concentration was determined to be 3.0 ng/mL in mouse skeletal muscle tissue extract based on a 1.0 mg/mL extract load, 7.1 ng/mL in rat skeletal muscle tissue extract based on a 1.0 mg/mL extract load, mouse brain tissue extract were served as a negative control.



Cytometric bead array standard curve of MP03490-1, CARN1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 88342-1-PBS. Detection antibody: 88342-2-PBS. Standard: Ag22761. Range: 0.625-80 ng/mL