

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
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 57571	CloneNo.: 260860B7
Source: Rabbit	UNIPROT ID: A5YM72	
Isotype: IgG	Full Name: ATP-grasp domain containing 1	
Immunogen Catalog Number: AG22761	Calculated MW: 827 aa, 88 kDa	
	Observed MW: 88-103 kDa	

Applications

Tested Applications:
WB, Cytometric bead array, Indirect ELISA

Species Specificity:
human

Product Information

88342-1-PBS targets CARNS1 as part of a matched antibody pair:

MP03490-1: 88342-1-PBS capture and 88342-2-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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)

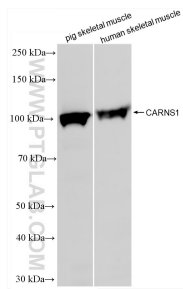
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

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

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

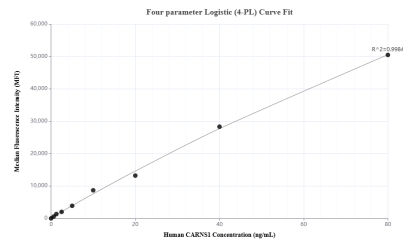
Selected Validation Data



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