

For Research Use Only

# RGS7 Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number: 86846-2-PBS



## Basic Information

<b>Catalog Number:</b> 86846-2-PBS	<b>GenBank Accession Number:</b> BC022009	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6000	<b>CloneNo.:</b> 251849E9
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P49802	
<b>Isotype:</b> IgG	<b>Full Name:</b> regulator of G-protein signaling 7	
<b>Immunogen Catalog Number:</b> AG4982	<b>Calculated MW:</b> 58 kDa	
	<b>Observed MW:</b> 58 kDa	

## Applications

**Tested Applications:**  
WB, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## Product Information

86846-2-PBS targets RGS7 as part of a matched antibody pair:

MP02701-1: 86846-2-PBS capture and 86846-1-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

Regulator of G-protein signaling 7 (RGS7) expression is both necessary and sufficient to promote doxorubicin-dependent acetylation and activation of NF- $\kappa$ B subunit p65 and resultant production of pro-inflammatory cytokines from cardiomyocytes (PMID: 37589751). RGS7 promotes apoptosis in cardiac myocytes by increasing oxidative stress and impairing mitochondrial function, actions that involve a direct and functional interaction between RGS7 and the Ca<sup>2+</sup>/calmodulin-dependent kinase CaMKII (PMID: 36574707). In non-neuronal cell types, it is possible that a greater proportion of RGS7 may be present in the cytosol where it is free to interact with additional effectors (PMID: 36574707).

## Storage

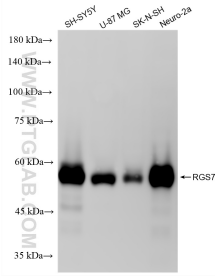
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

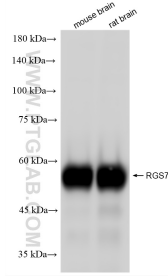
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

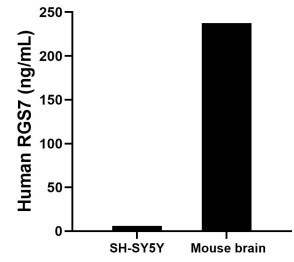
## Selected Validation Data



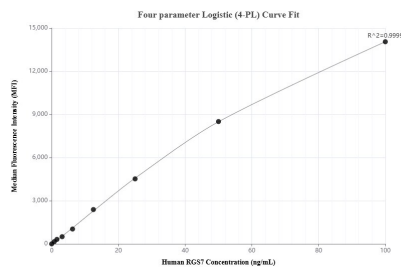
Various lysates were subjected to SDS PAGE followed by western blot with 86846-2-RR (RGS7 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86846-2-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 86846-2-RR (RGS7 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86846-2-PBS in a different storage buffer formulation.



The mean RGS7 concentration was determined to be 5.9 ng/mL in SH-SY5Y cell extract based on a 1.2 mg/mL extract load, 237.6 ng/mL in Mouse brain tissue extract based on a 3.2 mg/mL extract load.



Cytometric bead array standard curve of MP02701-1, RGS7 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 86846-2-PBS. Detection antibody: 86846-1-PBS. Standard: Ag4982. Range: 0.781-100 ng/mL.