

For Research Use Only

# RGS7 Recombinant monoclonal antibody

Catalog Number: 86846-2-RR



## Basic Information

<b>Catalog Number:</b> 86846-2-RR	<b>GenBank Accession Number:</b> BC022009	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6000	<b>CloneNo.:</b> 251849E9
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P49802	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000
<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, ELISA

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

**Positive Controls:**

WB : SH-SY5Y cells, mouse brain tissue, rat brain tissue,  
U-87 MG cells, SK-N-SH cells, Neuro-2a cells

## 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 -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

**\*\*\* 20ul sizes contain 0.1% BSA**

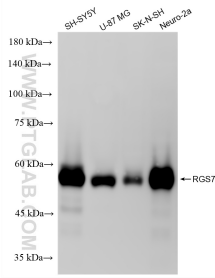
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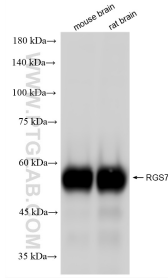
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## Selected Validation Data



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.



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