

For Research Use Only

# SCAMP5 Recombinant antibody

Catalog Number: 85669-2-RR



## Basic Information

<b>Catalog Number:</b> 85669-2-RR	<b>GenBank Accession Number:</b> BC024700	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 192683	<b>CloneNo.:</b> 243122F5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q8TAC9	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG	<b>Full Name:</b> secretory carrier membrane protein 5	
<b>Immunogen Catalog Number:</b> AG31837	<b>Calculated MW:</b> 26 kDa	
	<b>Observed MW:</b> 26 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse, rat	<b>WB :</b> mouse brain tissue, 37°C incubated mouse brain tissue, rat brain tissue, 37°C incubated rat brain tissue

## Background Information

Secretory carrier-associated membrane protein 5 (SCAMP5) belongs to the SCAMP family. Secretory carrier membrane proteins (SCAMPs) constitute a group of membrane transport proteins in plants, insects and mammals. The mammalian genome contains five types of SCAMP genes, namely, SCAMP1-SCAMP5. (PMID:36217917, PMID:19234194). SCAMPs participate in the vesicle cycling fusion of vesicles and cell membranes and play roles in regulating exocytosis and endocytosis, activating synaptic function and transmitting nerve signals. Among these proteins, SCAMP5 is highly expressed in the brain and has direct or indirect effects on the function of the central nervous system (PMID:36217917). SCAMP5 regulates membrane transport, controls the exocytosis of synaptic vesicles and is related to secretion carrier and membrane function. In addition, SCAMP5 plays a major role in the normal maintenance of the physiological functions of nerve cells (PMID:36217917, PMID:33663553). For optimal WB detection of this membrane protein, we recommend to avoid boiling the sample after lysis.

## Storage

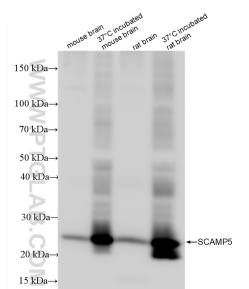
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

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

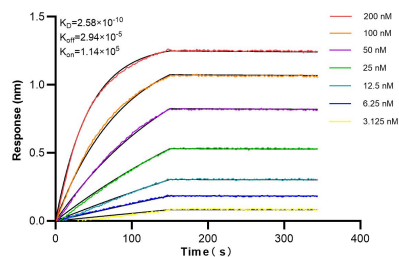
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85669-2-RR (SCAMP5 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 85669-2-RR against Human SCAMP5 were performed. The affinity constant is 0.258 nM.