

For Research Use Only

# SYNPO Recombinant antibody

Catalog Number: 80721-1-RR



## Basic Information

<b>Catalog Number:</b> 80721-1-RR	<b>GenBank Accession Number:</b> BC146665	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 500 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 11346	<b>CloneNo.:</b> 4K5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q8N3V7	<b>Recommended Dilutions:</b> WB 1:2000-1:17800 IHC 1:500-1:2000
<b>Isotype:</b> IgG	<b>Full Name:</b> synaptopodin	
<b>Immunogen Catalog Number:</b> AG31287	<b>Calculated MW:</b> 929 aa, 99 kDa	
	<b>Observed MW:</b> 100 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse, rat, pig	<b>WB :</b> mouse brain tissue, rat brain tissue, pig brain tissue
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> human kidney tissue, mouse brain tissue, mouse kidney tissue, rat kidney tissue

## Background Information

Synaptopodin is a actin-associated protein expressed in mature dendritic spines and renal podocytes. Several isoforms of synaptopodin have been reported: the 100 kDa neural form and 110 kDa renal form. 44-45 kDa may represent the degradation product of synaptopodin. As a podocyte specific protein, synaptopodin expression level was decreased in kidney but increased in the urinary podocytes from patients with preeclampsia, indicating that synaptopodin is a useful marker for preeclampsia. (15841212, 10555072)

## Storage

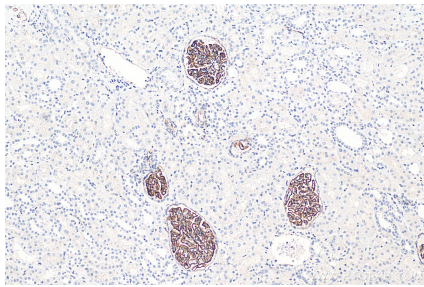
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

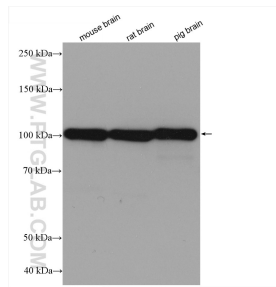
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

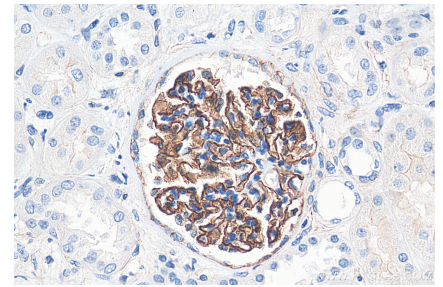
## Selected Validation Data



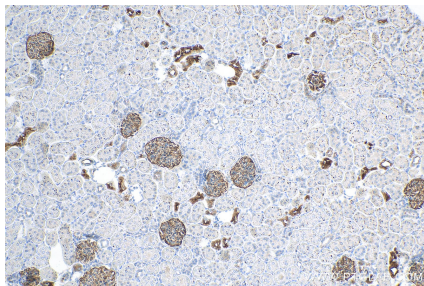
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 80721-1-RR (SYNPO antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



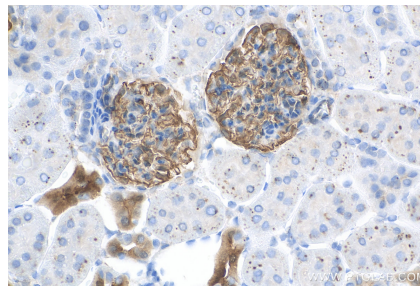
Various lysates were subjected to SDS PAGE followed by western blot with 80721-1-RR (SYNPO antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



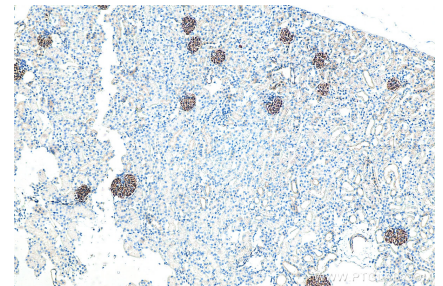
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 80721-1-RR (SYNPO antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



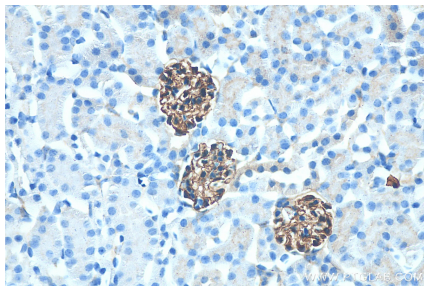
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 80721-1-RR (SYNPO antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



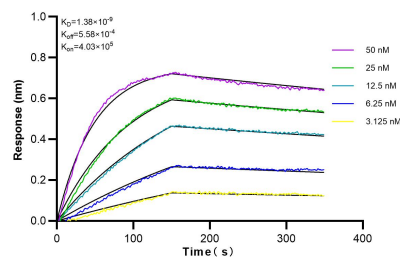
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 80721-1-RR (SYNPO antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 80721-1-RR (SYNPO antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 80721-1-RR (SYNPO antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 80721-1-RR against Human SYNPO were performed. The affinity constant is 1.38 nM.