

For Research Use Only

# SNX27 Recombinant monoclonal antibody

Catalog Number:87039-1-RR



## Basic Information

|   |   |   |
|---|---|---|
| <b>Catalog Number:</b><br>87039-1-RR        | <b>GenBank Accession Number:</b><br>BC012184            | <b>Purification Method:</b><br>Protein A purification                   |
| <b>Source:</b><br>Rabbit                    | <b>GeneID (NCBI):</b><br>81609                          | <b>CloneNo.:</b><br>252134D11   |
| <b>Isotype:</b><br>IgG                      | <b>UNIPROT ID:</b><br>Q96L92                            | <b>Recommended Dilutions:</b><br>WB: 1:1000-1:4000<br>IHC: 1:250-1:1000 |
| <b>Immunogen Catalog Number:</b><br>AG29226 | <b>Full Name:</b><br>sorting nexin family member 27     |   |
|   | <b>Calculated MW:</b><br>61 kDa, 60 kDa, 52 kDa, 28 kDa |   |
|   | <b>Observed MW:</b><br>61 kDa                           |   |

## Applications

**Tested Applications:**  
WB, IHC, ELISA

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

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** K-562 cells, HeLa cells, Jurkat cells, HEK-293 cells, 3T3-L1 cells, NIH/3T3 cells, HSC-T6 cells

**IHC :** mouse kidney tissue,

## Background Information

Sorting nexin 27 (SNX27), a PDZ domain-containing protein, belongs to the sorting nexin family of proteins. SNX27 promotes the recycling of internalized transmembrane proteins from endosomes to the plasma membrane by linking PDZ-dependent cargo recognition to retromer-mediated transport (PMID: 21602791; 23563491). It has been shown that SNX27 deficiency contributes to synaptic and cognitive deficits by modulating glutamate receptor recycling in Down's syndrome (PMID: 23524343). SNX27 has also been proposed to have a role in regulating  $\beta$ -amyloid (A $\beta$ ) generation by modulating  $\gamma$ -secretase activity, which is a molecular mechanism for A $\beta$ -dependent pathogenesis in both Down's syndrome and Down's syndrome (PMID: 25437557).

## 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

For technical support and original validation data for this product please contact:

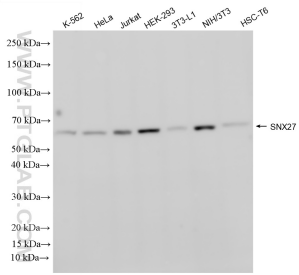
T: 4006900926

E: Proteintech-CN@ptglab.com

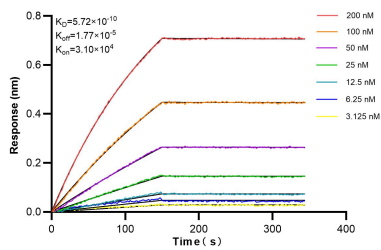
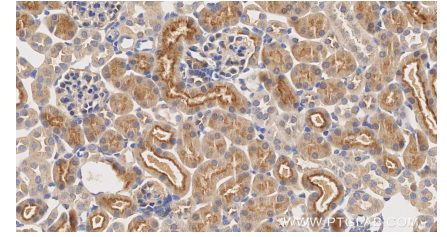
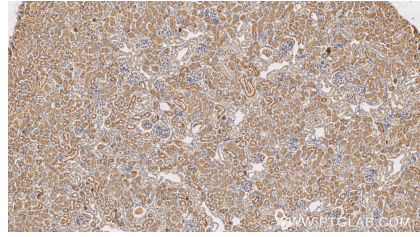
W: ptgcn.com

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87039-1-RR (SNX27 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 87039-1-RR against Human SNX27 were performed. The affinity constant is 0.572 nM.