

For Research Use Only

# SNX27 Monoclonal antibody

Catalog Number: 68386-1-Ig **1 Publications**



## Basic Information

|                                     |  |   |
|-------------------------------------|--|---|
| Catalog Number:<br>68386-1-Ig       | GenBank Accession Number:<br>BC012184            | Purification Method:<br>Protein G purification                    |
| Size:<br>1000 ug/ml                 | GeneID (NCBI):<br>81609                          | CloneNo.:<br>2C4G5  |
| Source:<br>Mouse                    | UNIPROT ID:<br>Q96L92                            | Recommended Dilutions:<br>WB 1:5000-1:50000<br>IF/ICC 1:200-1:800 |
| Isotype:<br>IgG1                    | Full Name:<br>sorting nexin family member 27     |   |
| Immunogen Catalog Number:<br>AG9447 | Calculated MW:<br>61 kDa, 60 kDa, 52 kDa, 28 kDa |   |
|                                     | Observed MW:<br>61 kDa                           |   |

## Applications

|   |  |
|---|--|
| Tested Applications:<br>WB, IF/ICC, ELISA | Positive Controls:   |
| Cited Applications:<br>WB                 | WB : U2OS cells, LNCaP cells, HeLa cells, HEK-293 cells,<br>Jurkat cells, K-562 cells, HSC-T6 cells, 4T1 cells |
| Species Specificity:<br>human, mouse, rat | IF/ICC : HeLa cells, HEK-293 cells   |

## 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).

## Notable Publications

| Author   | Pubmed ID | Journal | Application |
|----------|-----------|---------|-------------|
| Yepin Yu | 39494909  | J Virol | WB          |

## 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

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

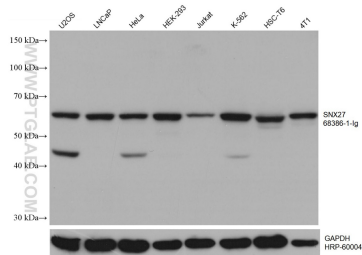
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E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

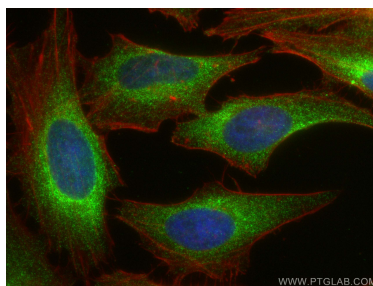
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68386-1-Ig (SNX27 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using SNX27 antibody (68386-1-Ig, Clone: 2C4G5) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).