

Anti-Sortilin / NT3 Antibody [PSH06-16]

HA722513



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 92 kDa
Clone number:	PSH06-16

Description:	Functions as a sorting receptor in the Golgi compartment and as a clearance receptor on the cell surface. Required for protein transport from the Golgi apparatus to the lysosomes by a pathway that is independent of the mannose-6-phosphate receptor (M6PR). Lysosomal proteins bind specifically to the receptor in the Golgi apparatus and the resulting receptor-ligand complex is transported to an acidic prelysosomal compartment where the low pH mediates the dissociation of the complex. The receptor is then recycled back to the Golgi for another round of trafficking through its binding to the retromer. Also required for protein transport from the Golgi apparatus to the endosomes. Promotes neuronal apoptosis by mediating endocytosis of the proapoptotic precursor forms of BDNF (proBDNF) and NGFB (proNGFB). Also acts as a receptor for neurotensin. May promote mineralization of the extracellular matrix during osteogenic differentiation by scavenging extracellular LPL. Probably required in adipocytes for the formation of specialized storage vesicles containing the glucose transporter SLC2A4/GLUT4 (GLUT4 storage vesicles, or GSVs). These vesicles provide a stable pool of SLC2A4 and confer increased responsiveness to insulin. May also mediate transport from the endoplasmic reticulum to the Golgi.
Immunogen:	Recombinant protein within Human Sortilin aa 78-755 (Extracellular).
Positive control:	SW480 cell lysate, HeLa cell lysate, 293T cell lysate, HepG2 cell lysate, SK-Br-3 cell lysate, U-2 OS cell lysate, U-87 MG cell lysate, Neuro-2a cell lysate, C6 cell lysate, Mouse brain tissue lysate, Mouse lung tissue lysate, Rat brain tissue lysate, Rat lung tissue lysate, human testis tissue, human brain tissue, mouse brain tissue, rat brain tissue.
Subcellular location:	Cell membrane. Endoplasmic reticulum. Endosome. Golgi apparatus. Lysosome.
Database links:	SwissProt: Q99523 Human Q6PHU5 Mouse O54861 Rat
Recommended Dilutions:	
WB	1:1,000
IHC-P	1:1,000
Storage Buffer:	PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Storage Instruction:	Shipped at 4℃. Store at +4℃ short term (1-2 weeks). Store at -20℃ long term.
Purity:	Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

Technical: 0086-571-89986345

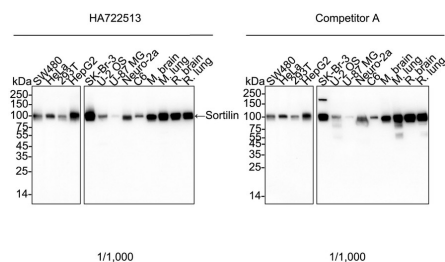
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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of Sortilin / NT3 on different lysates with Rabbit anti-Sortilin / NT3 antibody (HA722513) at 1/1,000 dilution and competitor's antibody at 1/1,000 dilution.



- Lane 1: SW480 cell lysate (20 µg/Lane)
- Lane 2: HeLa cell lysate (20 µg/Lane)
- Lane 3: 293T cell lysate (20 µg/Lane)
- Lane 4: HepG2 cell lysate (20 µg/Lane)
- Lane 5: SK-Br-3 cell lysate (20 µg/Lane)
- Lane 6: U-2 OS cell lysate (20 µg/Lane)
- Lane 7: U-87 MG cell lysate (20 µg/Lane)
- Lane 8: Neuro-2a cell lysate (20 µg/Lane)
- Lane 9: C6 cell lysate (20 µg/Lane)
- Lane 10: Mouse brain tissue lysate (40 µg/Lane)
- Lane 11: Mouse lung tissue lysate (40 µg/Lane)
- Lane 12: Rat brain tissue lysate (40 µg/Lane)
- Lane 13: Rat lung tissue lysate (40 µg/Lane)

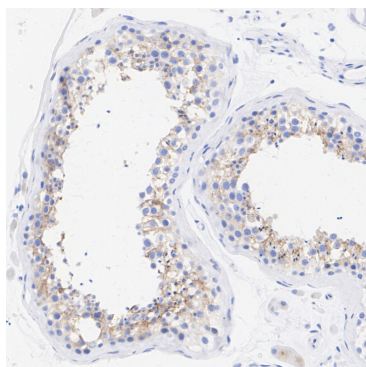
Predicted band size: 92 kDa
Observed band size: 100 kDa

Exposure time: 59 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA722513) at 1/1,000 dilution and competitor's antibody at 1/1,000 dilution were used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Immunohistochemical analysis of paraffin-embedded human testis tissue with Rabbit anti-Sortilin / NT3 antibody (HA722513) at 1/1,000 dilution.



The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA722513) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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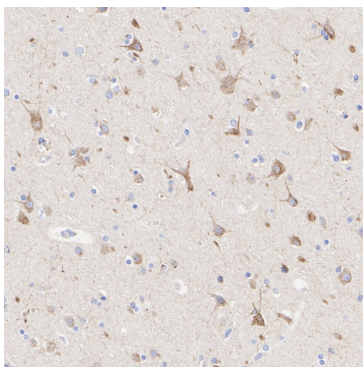


Fig3: Immunohistochemical analysis of paraffin-embedded human brain tissue with Rabbit anti-Sortilin / NT3 antibody (HA722513) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA722513) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

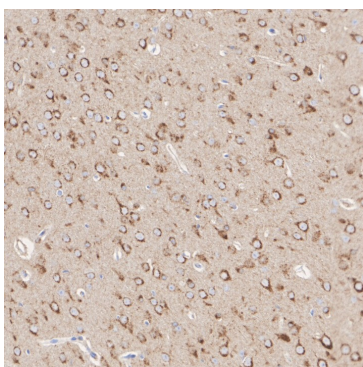


Fig4: Immunohistochemical analysis of paraffin-embedded mouse brain tissue with Rabbit anti-Sortilin / NT3 antibody (HA722513) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA722513) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

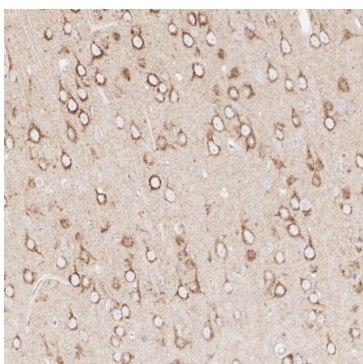


Fig5: Immunohistochemical analysis of paraffin-embedded rat brain tissue with Rabbit anti-Sortilin / NT3 antibody (HA722513) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA722513) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Ni X., Morales C.R. The lysosomal trafficking of acid sphingomyelinase is mediated by sortilin and mannose 6-phosphate receptor. *Traffic* 7:889-902 (2006)
2. Chen Z.-Y., Ieraci A., Teng H., Dall H., Meng C.-X., Herrera D.G., Nykjaer A., Hempstead B.L., Lee F.S. Sortilin controls intracellular sorting of brain-derived neurotrophic factor to the regulated secretory pathway. *J. Neurosci.* 25:6156-6166 (2005)

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