

Anti-gamma Adaptin Antibody [PSH02-65]

HA721843



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 91 kDa
Clone number:	PSH02-65

Description: Subunit of clathrin-associated adaptor protein complex 1 that plays a role in protein sorting in the late-Golgi/trans-Golgi network (TGN) and/or endosomes. The AP complexes mediate both the recruitment of clathrin to membranes and the recognition of sorting signals within the cytosolic tails of transmembrane cargo molecules. In association with AFTPH/aftiphilin in the aftiphilin/p200/gamma-synergin complex, involved in the trafficking of transferrin from early to recycling endosomes, and the membrane trafficking of furin and the lysosomal enzyme cathepsin D between the trans-Golgi network (TGN) and endosomes.

Immunogen: Recombinant protein within human gamma Adaptin aa 623-822 / 822.

Positive control: HeLa cell lysate, 293T cell lysate, Jurkat cell lysate, HepG2 cell lysate, Raji cell lysate, MCF7 cell lysate, A549 cell lysate, NIH/3T3 cell lysate, RAW264.7 cell lysate, PC-12 cell lysate, mouse kidney tissue lysate, mouse liver tissue lysate, rat kidney tissue lysate, rat liver tissue lysate, mouse kidney tissue, rat brain tissue.

Subcellular location: Golgi apparatus, Cytoplasmic vesicle, clathrin-coated vesicle membrane, Cytoplasm, perinuclear region,

Database links: SwissProt: O43747 Human | P22892 Mouse | A0A8I5Y697 Rat

Recommended Dilutions:

WB	1:1,000
IHC-P	1:200

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

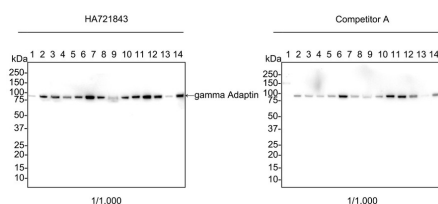
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Images

Fig1: Western blot analysis of gamma Adaptin on different lysates with Rabbit anti-gamma Adaptin antibody (HA721843) at 1/1,000 dilution and competitor's antibody at 1/1,000 dilution.

Lane 1: HeLa cell lysate (20 µg/Lane)
 Lane 2: 293T cell lysate (20 µg/Lane)
 Lane 3: Jurkat cell lysate (20 µg/Lane)
 Lane 4: HepG2 cell lysate (20 µg/Lane)
 Lane 5: Raji cell lysate (20 µg/Lane)
 Lane 6: MCF7 cell lysate (20 µg/Lane)
 Lane 7: A549 cell lysate (20 µg/Lane)
 Lane 8: NIH/3T3 cell lysate (20 µg/Lane)
 Lane 9: RAW264.7 cell lysate (20 µg/Lane)
 Lane 10: PC-12 cell lysate (20 µg/Lane)
 Lane 11: Mouse kidney tissue lysate (40 µg/Lane)
 Lane 12: Mouse liver tissue lysate (40 µg/Lane)
 Lane 13: Rat kidney tissue lysate (40 µg/Lane)
 Lane 14: Rat liver tissue lysate (40 µg/Lane)



Predicted band size: 91 kDa

Observed band size: 91 kDa

Exposure time: 1 minute 46 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody (HA721843) at 1/1,000 dilution and competitor's antibody at 1/1,000 dilution were used in 5% NFDN/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.

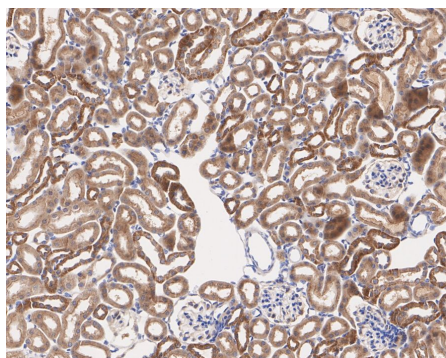


Fig2: Immunohistochemical analysis of paraffin-embedded mouse kidney tissue with Rabbit anti-gamma Adaptin antibody (HA721843) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 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 (HA721843) at 1/200 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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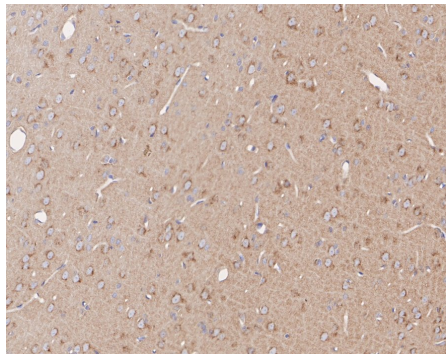


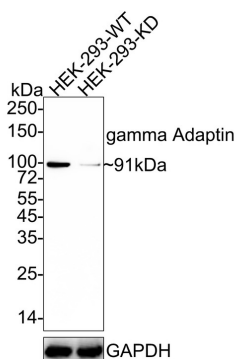
Fig3: Immunohistochemical analysis of paraffin-embedded rat brain tissue with Rabbit anti-gamma Adaptin antibody (HA721843) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 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 (HA721843) at 1/200 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: Western blot analysis of gamma Adaptin on different lysates with Rabbit anti-gamma Adaptin antibody (HA721843) at 1/1,000 dilution.

Lane 1: HEK-293-si NT cell lysate

Lane 2: HEK-293-si gamma Adaptin cell lysate



Lysates/proteins at 10 µg/Lane.

Predicted band size: 91 kDa

Observed band size: 91 kDa

Exposure time: 2 minutes 18 seconds;

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 (HA721843) at 1/1,000 dilution was 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.

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

Background References

1. Usmani MA, Ahmed ZM, Magini P, et al. De novo and bi-allelic variants in AP1G1 cause neurodevelopmental disorder with developmental delay, intellectual disability, and epilepsy. *Am J Hum Genet.* 2021 Jul 1;108(7):1330-1341.
2. Tao X, Lu Y, Qiu S, et al. AP1G1 is involved in cetuximab-mediated downregulation of ASCT2-EGFR complex and sensitization of human head and neck squamous cell carcinoma cells to ROS-induced apoptosis. *Cancer Lett.* 2017 Nov 1; 408: 33-42.

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