

Anti-APP/beta Amyloid Antibody [PSH04-90]

HA722207



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse
Applications:	WB, IF-Cell, IHC-P
Molecular Wt:	Predicted band size: 87 kDa
Clone number:	PSH04-90

Description: Amyloid beta precursor protein (APP) is a 100-140 kDa transmembrane glycoprotein existing as several isoforms. The amino acid sequence of APP contains the amyloid domain (A-beta), which can be released by a two-step proteolytic cleavage. It is expressed in all fetal tissues examined with highest levels in brain, kidney, heart and spleen. APP acts as a cell surface receptor and performs physiological functions on the surface of neurons relevant to neurite growth, neuronal adhesion and axonogenesis. It is also involved in cell mobility and transcription regulation through protein-protein interactions.

Immunogen: Synthetic peptide within C-terminal human Amyloid Beta.

Positive control: HeLa cell lysate, HeLa treated with 100ng/mL Nocodazole for 17 hours cell lysate, SH-SY5Y cell lysate, AD mouse brain tissue lysate, mouse brain tissue lysate, HeLa, AD mouse brain tissue, mouse brain tissue.

Subcellular location: Cell membrane, Membrane, Perikaryon, Cell projection, growth cone, Membrane, clathrin-coated pit, Early endosome, Cytoplasmic vesicle.

Database links: SwissProt: P05067 Human | P12023 Mouse

Recommended Dilutions:

WB	1:1,000
IF-Cell	1:100
IHC-P	1:200-1:1,000

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

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term.

Purity: Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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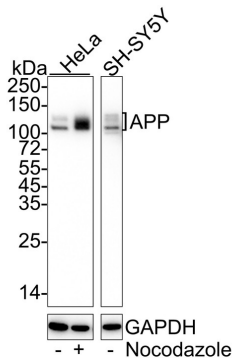
Images

Fig1: Western blot analysis of APP/beta Amyloid on different lysates with Rabbit anti-APP/beta Amyloid antibody (HA722207) at 1/1,000 dilution.

Lane 1: HeLa cell lysate

Lane 2: HeLa treated with 100ng/mL Nocodazole for 17 hours cell lysate

Lane 3: SH-SY5Y cell lysate



Lysates/proteins at 20 µg/Lane.

Predicted band size: 87 kDa

Observed band size: 87-120 kDa

Exposure time: 1 minute 2 seconds; ECL: K1801;

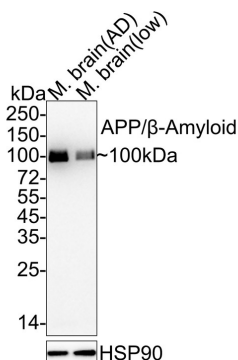
4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA722207) 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.

Fig2: Western blot analysis of APP/beta Amyloid on different lysates with Rabbit anti-APP/beta Amyloid antibody (HA722207) at 1/1,000 dilution.

Lane 1: AD Mouse brain tissue lysate

Lane 2: Mouse brain tissue lysate (low expression)



Lysates/proteins at 20 µg/Lane.

Predicted band size: 87 kDa

Observed band size: 100 kDa

Exposure time: 3 minutes; 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 (HA722207) 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.

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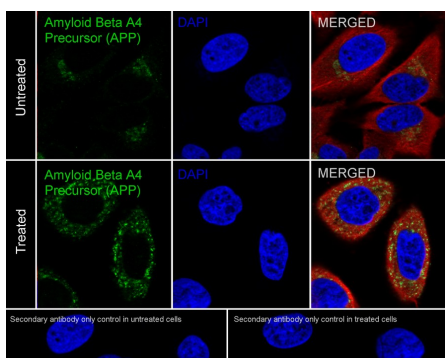


Fig3: Immunocytochemistry analysis of HeLa cells treated with 100ng/mL Nocodazole for 17 hours labeling APP/beta Amyloid with Rabbit anti-APP/beta Amyloid antibody (HA722207) at 1/100 dilution.

Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-APP/beta Amyloid antibody (HA722207) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

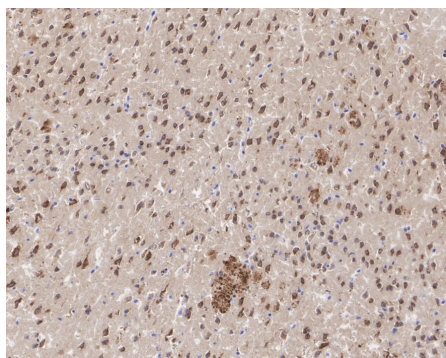


Fig4: Immunohistochemical analysis of paraffin-embedded AD mouse brain tissue with Rabbit anti-APP/beta Amyloid antibody (HA722207) at 1/1,000 dilution.

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 (HA722207) 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.

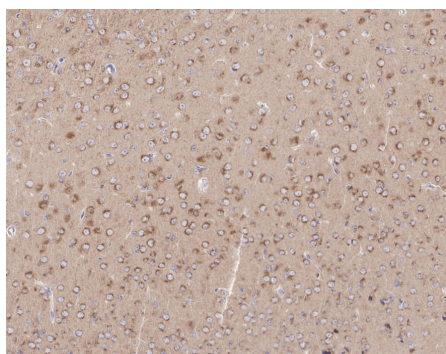


Fig5: Immunohistochemical analysis of paraffin-embedded mouse brain tissue with Rabbit anti-APP/beta Amyloid antibody (HA722207) at 1/200 dilution.

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 (HA722207) 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.

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

Background References

1. Cho Y et al. Physiology and pharmacology of amyloid precursor protein. *Pharmacol Ther.* 2022 Jul
2. Strobe TA et al. Amyloid precursor protein and mitochondria. *Curr Opin Neurobiol.* 2023 Feb

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