Anti-Wnt3a Antibody [PSH19-96]

HA724116

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse
Applications:	WB, IHC-P, IP
Molecular Wt:	Predicted band size: 39 kDa
Clone number:	PSH19-96

Description: The WNT gene family consists of structurally related genes which encode secreted signaling proteins. These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and patterning during embryogenesis. This gene is a member of the WNT gene family. It encodes a protein which shows 96% amino acid identity to mouse Wnt3A protein, and 84% to human WNT3 protein, another WNT gene product. This gene is clustered with WNT14 gene, another family member, in chromosome 1q42 region.

Positive control: HCT 116 cell lysates, mouse E14.5 embryo tissue.

Subcellular location: Secreted, extracellular space, extracellular matrix.

Database links: SwissProt: P56704 Human | P27467 Mouse

Recommended Dilutions:

WB	1:5,000
IHC-P	1:200
IP	1-2μg/sample

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). It is recommended to aliquot into single-use upon delivery. Store at -20℃ long term.

Purity: Protein A affinity purified.

Images

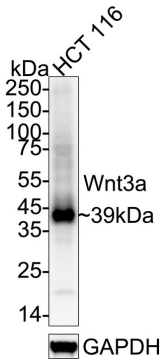

Fig1: Western blot analysis of Wnt3a on HCT 116 cell lysates with Rabbit anti-Wnt3a antibody (HA724116) at 1/5,000 dilution.

Lysates/proteins at 20 µg/Lane.

Predicted band size: 39 kDa
Observed band size: 39 kDa

Exposure time: 1 minute; ECL: K1802;

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 (HA724116) at 1/5,000 dilution was used in primary antibody dilution (K1803) at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

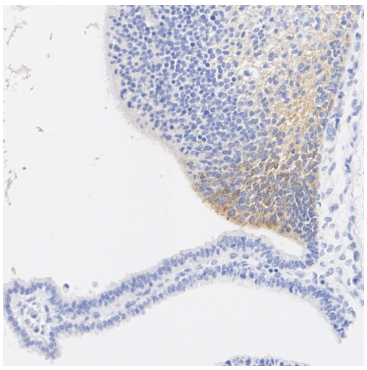

Fig2: Immunohistochemical analysis of paraffin-embedded mouse E14.5 embryo tissue with Rabbit anti-Wnt3a antibody (HA724116) at 1/200 dilution.

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 ddH_2O and PBS, and then probed with the primary antibody (HA724116) 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.

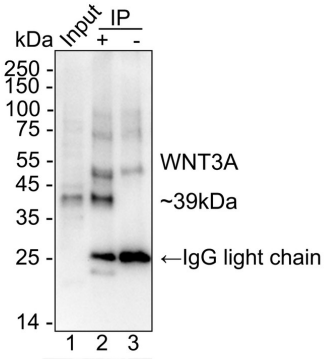

Fig3: Wnt3a was immunoprecipitated from 0.2 mg HCT 116 cell lysate with HA724116 at 2 µg/10 µl beads. Western blot was performed from the immunoprecipitate using HA724116 at 1/5,000 dilution. HRP Conjugated Anti-Rabbit IgG for IP Nano-secondary antibody at 1/5,000 dilution was used for 1 hour at room temperature.

Lane 1: HCT 116 cell lysate (input)
Lane 2: HA724116 IP in HCT 116 cell lysate
Lane 3: Rabbit IgG instead of HA724116 in HCT 116 cell lysate

Blocking/Dilution buffer: primary antibody dilution (K1803)
Exposure time: 3 minutes; ECL: K1802

Background References

1. Kyun ML. et. al. Wnt3a Stimulation Promotes Primary Ciliogenesis through beta-Catenin Phosphorylation-Induced Reorganization of Centriolar Satellites. Cell Rep. 2020 Feb
2. Lv X. et. al. Overexpression of miR-27b-3p Targeting Wnt3a Regulates the Signaling Pathway of Wnt/beta-Catenin and Attenuates Atrial Fibrosis in Rats with Atrial Fibrillation. Oxid Med Cell Longev. 2019 Apr