Anti-TAZ / WWTR1 Antibody [PSH15-58]

HA723765

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P, IP
Molecular Wt:	Predicted band size: 44 kDa
Clone number:	PSH15-58

Description: WW domain-containing transcription regulator protein 1 (WWTR1), also known as Transcriptional coactivator with PDZ-binding motif (TAZ), is a protein that in humans is encoded by the WWTR1 gene. WWTR1 acts as a transcriptional coregulator and has no effect on transcription alone. When in complex with transcription factor binding partners, WWTR1 helps promote gene expression in pathways associated with development, cell growth and survival, and inhibiting apoptosis. Aberrant WWTR1 function has been implicated for its role in driving cancers. WWTR1 is often referred to as TAZ due to its initial characterization with the name TAZ. However, WWTR1 (TAZ) is not to be confused with the protein tafazzin, which originally held the official gene symbol TAZ, and is now TAFAZZIN.

Immunogen: Recombinant protein within human TAZ / WWTR1 aa 1-400.

Positive control: HeLa cell lysate, PANC-1 cell lysate, SK-MEL-28 cell lysate, A375 cell lysate, F9 cell lysate, C2C12 cell lysate, NIH/3T3 cell lysate, C6 cell lysate, human breast carcinoma tissue, human kidney tissue, human stomach tissue, mouse kidney tissue, mouse stomach tissue, rat kidney tissue, rat stomach tissue.

Subcellular location: Nucleus, Cytoplasm, Cell membrane, Cell junction, tight junction.

Database links: SwissProt: Q9GZV5 Human | Q9EPK5 Mouse
Entrez Gene: 295062 Rat

Recommended Dilutions:

WB	1:5,000
IHC-P	1:200-1:1,000
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

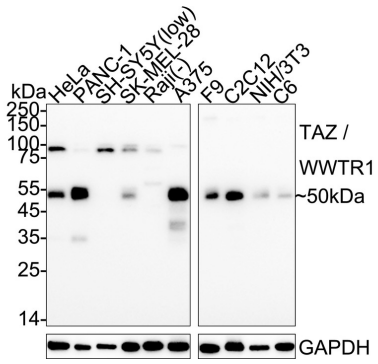

Fig1: Western blot analysis of TAZ / WWTR1 on different lysates with Rabbit anti-TAZ / WWTR1 antibody (HA723765) at 1/5,000 dilution.

Lane 1: HeLa cell lysate
Lane 2: PANC-1 cell lysate
Lane 3: SH-SY5Y cell lysate (low expression)
Lane 4: SK-MEL-28 cell lysate
Lane 5: Raji cell lysate (negative)
Lane 6: A375 cell lysate
Lane 7: F9 cell lysate
Lane 8: C2C12 cell lysate
Lane 9: NIH/3T3 cell lysate
Lane 10: C6 cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 44 kDa
Observed band size: 50 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 (HA723765) 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.

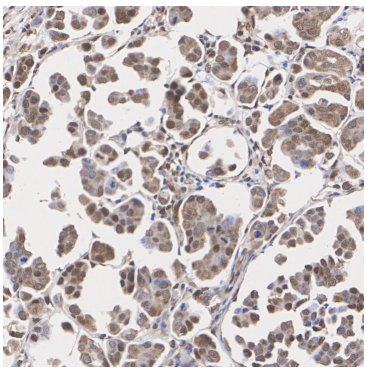

Fig2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue with Rabbit anti-TAZ / WWTR1 antibody (HA723765) at 1/200 dilution.

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 (HA723765) 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.

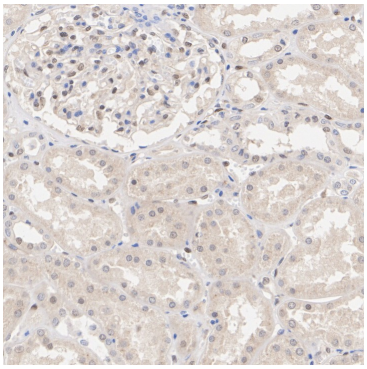

Fig3: Immunohistochemical analysis of paraffin-embedded human kidney tissue with Rabbit anti-TAZ / WWTR1 antibody (HA723765) at 1/1,000 dilution.

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 ddH_2O and PBS, and then probed with the primary antibody (HA723765) 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.

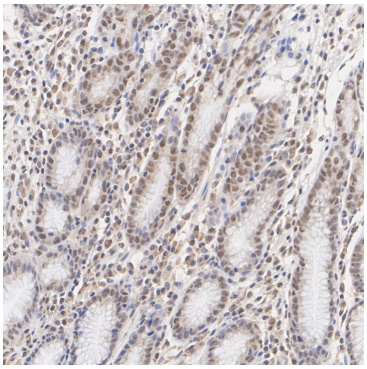

Fig4: Immunohistochemical analysis of paraffin-embedded human stomach tissue with Rabbit anti-TAZ / WWTR1 antibody (HA723765) at 1/1,000 dilution.

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 ddH_2O and PBS, and then probed with the primary antibody (HA723765) 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.

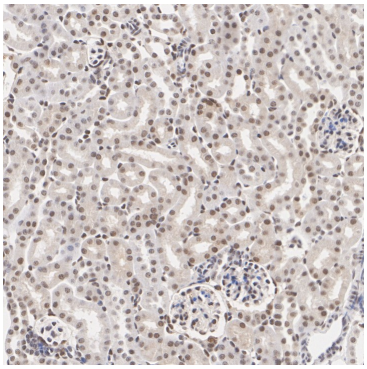

Fig5: Immunohistochemical analysis of paraffin-embedded mouse kidney tissue with Rabbit anti-TAZ / WWTR1 antibody (HA723765) at 1/1,000 dilution.

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 ddH_2O and PBS, and then probed with the primary antibody (HA723765) 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.

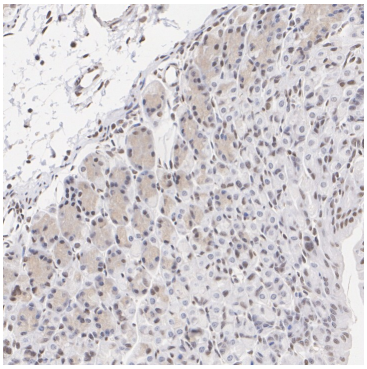

Fig6: Immunohistochemical analysis of paraffin-embedded mouse stomach tissue with Rabbit anti-TAZ / WWTR1 antibody (HA723765) at 1/1,000 dilution.

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 ddH_2O and PBS, and then probed with the primary antibody (HA723765) 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.

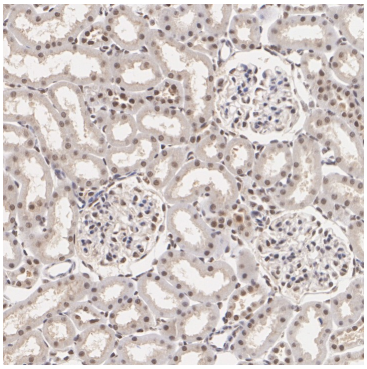

Fig7: Immunohistochemical analysis of paraffin-embedded rat kidney tissue with Rabbit anti-TAZ / WWTR1 antibody (HA723765) at 1/1,000 dilution.

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 ddH_2O and PBS, and then probed with the primary antibody (HA723765) 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.

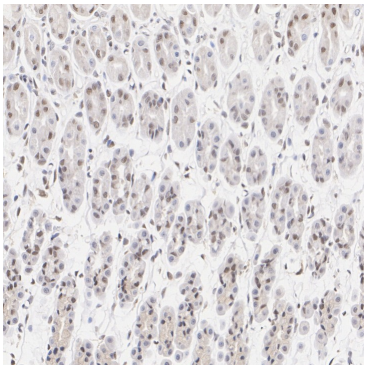

Fig8: Immunohistochemical analysis of paraffin-embedded rat stomach tissue with Rabbit anti-TAZ / WWTR1 antibody (HA723765) at 1/1,000 dilution.

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 ddH_2O and PBS, and then probed with the primary antibody (HA723765) 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.

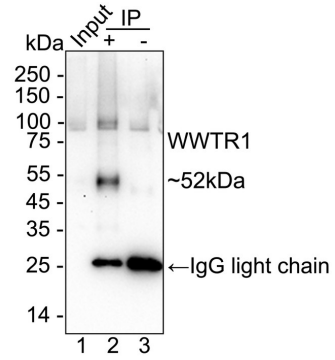

Fig9: TAZ / WWTR1 was immunoprecipitated from 0.2 mg PANC-1 cell lysate with HA723765 at 2 µg/10 µl beads. Western blot was performed from the immunoprecipitate using HA723765 at 1/5,000 dilution. HRP Conjugated Anti-Rabbit IgG for IP Nano-secondary antibody at 1/5,000 dilution was used for 1 hour at room temperature.

Lane 1: PANC-1 cell lysate (input)
Lane 2: HA723765 IP in PANC-1 cell lysate
Lane 3: Rabbit IgG instead of HA723765 in PANC-1 cell lysate

Blocking/Dilution buffer: primary antibody dilution (K1803)
Exposure time: 3 minutes; ECL: K1801

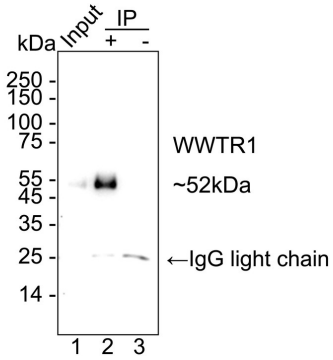

Fig10: TAZ / WWTR1 was immunoprecipitated from 0.2 mg C2C12 cell lysate with HA723765 at 2 µg/10 µl beads. Western blot was performed from the immunoprecipitate using HA723765 at 1/5,000 dilution. HRP Conjugated Anti-Rabbit IgG for IP Nano-secondary antibody at 1/5,000 dilution was used for 1 hour at room temperature.

Lane 1: C2C12 cell lysate (input)
Lane 2: HA723765 IP in C2C12 cell lysate
Lane 3: Rabbit IgG instead of HA723765 in C2C12 cell lysate

Blocking/Dilution buffer: primary antibody dilution (K1803)
Exposure time: 20 seconds; ECL: K1801

Background References

1. Driskill JH et al. WWTR1(TAZ)-CAMTA1 reprograms endothelial cells to drive epithelioid hemangioendothelioma. Genes Dev. 2021 Apr
2. Seavey CN et al. WWTR1(TAZ)-CAMTA1 gene fusion is sufficient to dysregulate YAP/TAZ signaling and drive epithelioid hemangioendothelioma tumorigenesis. Genes Dev. 2021 Apr