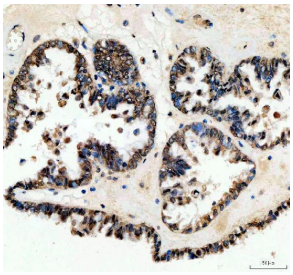
WWTR1 Antibody / Hippo Pathway Effector Antibody (FY13463)

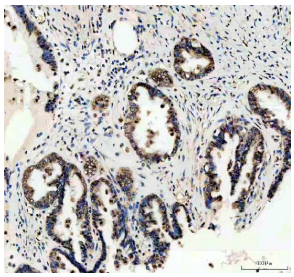
Catalog No.	Formulation	Size
FY13463	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

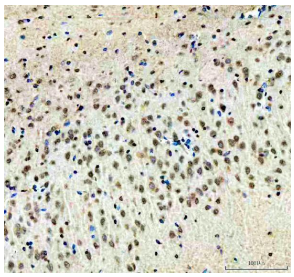
Species Reactivity	Human, Mouse, Rat
Format	Lyophilized
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purification
UniProt	Q9GZV5
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Immunoprecipitation: 2ug per 500ug of lysate
Limitations	This WWTR1 Antibody / Hippo Pathway Effector Antibody is available for research use only.



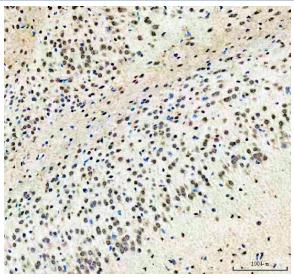
WWTR1 Antibody / Hippo Pathway Effector Antibody Human Ovarian Cancer IHC. Immunohistochemical staining of FFPE human ovarian cancer tissue using WWTR1 Antibody / Hippo Pathway Effector Antibody. WWTR1 expression is detected predominantly within the nuclei and cytoplasm of tumor cells, consistent with its role as a Hippo pathway-regulated transcriptional coactivator that controls cell proliferation, survival, and epithelial-to-mesenchymal transition. Heat-induced epitope retrieval was performed in pH 8.0 EDTA buffer prior to staining. Tissue sections were blocked with 10% goat serum and incubated with the primary antibody (2 ug/ml) overnight at 4Â°C, followed by a peroxidase-conjugated goat anti-rabbit IgG secondary antibody. Immunoreactivity was visualized using an HRP Super Vision detection system with DAB as the chromogen.



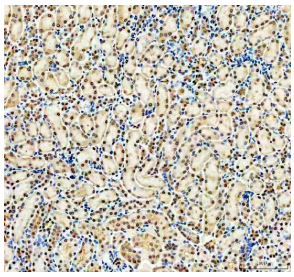
WWTR1 Antibody / Hippo Pathway Effector Antibody Ovarian Adenocarcinoma IHC. Immunohistochemical staining of FFPE human ovarian adenocarcinoma tissue using WWTR1 Antibody / Hippo Pathway Effector Antibody. WWTR1 expression is detected predominantly within the nuclei and cytoplasm of neoplastic epithelial cells, consistent with its role as a Hippo pathway-regulated transcriptional coactivator involved in cell proliferation, survival, and epithelial-to-mesenchymal transition. Heat-induced epitope retrieval was performed in pH 8.0 EDTA buffer prior to staining. Tissue sections were blocked with 10% goat serum and incubated with the primary antibody (2 ug/ml) overnight at 4Â°C, followed by a peroxidase-conjugated goat anti-rabbit IgG secondary antibody. Immunoreactivity was visualized using an HRP Super Vision detection system with DAB as the chromogen.



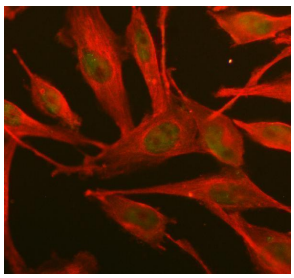
WWTR1 Antibody / Hippo Pathway Effector Antibody Mouse Brain IHC. Immunohistochemical staining of FFPE mouse brain tissue using WWTR1 Antibody / Hippo Pathway Effector Antibody. WWTR1 expression is detected predominantly within the nuclei of neuronal cells, consistent with its role as a Hippo pathway-regulated transcriptional coactivator involved in neural development, cell fate determination, and transcriptional control. Heat-induced epitope retrieval was performed in pH 8.0 EDTA buffer prior to staining. Tissue sections were blocked with 10% goat serum and incubated with the primary antibody (2 ug/ml) overnight at 4Â°C, followed by a peroxidase-conjugated goat anti-rabbit IgG secondary antibody. Immunoreactivity was visualized using an HRP Super Vision detection system with DAB as the chromogen.



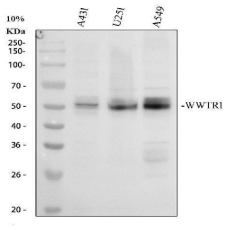
WWTR1 Antibody / Hippo Pathway Effector Antibody Rat Brain IHC. Immunohistochemical staining of FFPE rat brain tissue using WWTR1 Antibody / Hippo Pathway Effector Antibody. WWTR1 expression is detected predominantly within the nuclei of neuronal cells, consistent with its role as a Hippo pathway-regulated transcriptional coactivator involved in neural development, cell fate determination, and transcriptional regulation. Heat-induced epitope retrieval was performed in pH 8.0 EDTA buffer prior to staining. Tissue sections were blocked with 10% goat serum and incubated with the primary antibody (2 ug/ml) overnight at 4Â°C, followed by a peroxidase-conjugated goat anti-rabbit IgG secondary antibody. Immunoreactivity was visualized using an HRP Super Vision detection system with DAB as the chromogen.



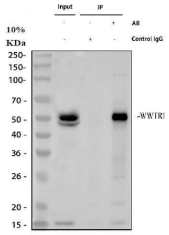
WWTR1 Antibody / Hippo Pathway Effector Antibody Rat Kidney IHC. Immunohistochemical staining of FFPE rat kidney tissue using WWTR1 Antibody / Hippo Pathway Effector Antibody. WWTR1 expression is detected predominantly within the nuclei of renal tubular epithelial cells, consistent with its role as a Hippo pathway-regulated transcriptional coactivator involved in cell proliferation, tissue homeostasis, and transcriptional regulation. Heat-induced epitope retrieval was performed in pH 8.0 EDTA buffer prior to staining. Tissue sections were blocked with 10% goat serum and incubated with the primary antibody (2 ug/ml) overnight at 4Â°C, followed by a peroxidase-conjugated goat anti-rabbit IgG secondary antibody. Immunoreactivity was visualized using an HRP Super Vision detection system with DAB as the chromogen.



WWTR1 Antibody / Hippo Pathway Effector Antibody U251 Cell IF. Immunofluorescent staining of U251 cells using WWTR1 Antibody / Hippo Pathway Effector Antibody. WWTR1 is detected predominantly within the nuclei (green), consistent with its role as a Hippo pathway-regulated transcriptional coactivator that undergoes nuclear localization during transcriptional activation. Alpha Tubulin (red) was used as a cytoskeletal marker. Enzymatic antigen retrieval was performed for 15 minutes prior to staining. Cells were blocked with 10% goat serum and incubated overnight at 4Â°C with rabbit anti-WWTR1 antibody (5 ug/ml) and mouse anti-Alpha Tubulin antibody, followed by Fluoro488-conjugated goat anti-rabbit IgG and Cy3-conjugated goat anti-mouse IgG secondary antibodies. Fluorescence was visualized using appropriate filter sets.



WWTR1 Antibody / Hippo Pathway Effector Antibody Cancer Cell Line WB. Western blot analysis of 1) human A431, 2) human U251, and 3) human A549 whole cell lysates using WWTR1 Antibody / Hippo Pathway Effector Antibody. A specific immunoreactive band is detected at approximately 50 kDa in all three cell lines, consistent with WWTR1 protein expression. The predicted molecular weight of WWTR1 is approximately 44 kDa, with the observed migration likely reflecting post-translational modification or altered electrophoretic mobility.



WWTR1 Antibody / Hippo Pathway Effector Antibody Immunoprecipitation Validation. Immunoprecipitation of WWTR1 from HeLa whole cell lysate using WWTR1 Antibody / Hippo Pathway Effector Antibody, followed by western blot detection with the same antibody. Lane 1: Input HeLa whole cell lysate. Lane 2: Rabbit control IgG immunoprecipitation (negative control). Lane 3: WWTR1 antibody immunoprecipitation. A specific band is detected at approximately 50 kDa in the input and WWTR1 immunoprecipitated sample, while no corresponding band is observed in the control IgG lane, confirming specific enrichment of WWTR1. The predicted molecular weight of WWTR1 is approximately 44 kDa.

Description

WWTR1 Antibody / Hippo Pathway Effector Antibody recognizes WW domain-containing transcription regulator 1 (WWTR1), more commonly known as TAZ, a transcriptional coactivator that serves as one of the principal downstream effectors of the Hippo signaling pathway. Unlike the mitochondrial protein Tafazzin, which is also abbreviated TAZ, WWTR1 regulates gene expression by interacting with TEAD and other transcription factors rather than binding DNA directly. Hippo pathway activation suppresses WWTR1 activity through phosphorylation and cytoplasmic retention, whereas Hippo pathway inhibition permits WWTR1 nuclear translocation and activation of genes controlling cell proliferation, differentiation, tissue regeneration, and stem cell maintenance. Consequently, WWTR1 Antibody / Hippo Pathway Effector Antibody is widely used to investigate Hippo signaling, mechanotransduction, and transcriptional regulation.

WWTR1 functions together with its closely related paralog YAP1 to integrate mechanical, biochemical, and cell polarity signals into transcriptional responses that regulate organ growth and tissue homeostasis. Following nuclear localization, WWTR1 associates primarily with TEAD transcription factors to activate genes involved in cell survival, proliferation, epithelial-to-mesenchymal transition, extracellular matrix remodeling, and cellular plasticity. Through these activities, WWTR1 contributes to embryonic development, wound healing, stem cell self-renewal, and normal tissue regeneration while responding dynamically to changes in cell density and extracellular matrix stiffness.

Aberrant WWTR1 signaling has been implicated in numerous human cancers, including breast, liver, lung, colorectal, pancreatic, and ovarian malignancies, where increased nuclear WWTR1 activity promotes tumor growth, invasion, metastasis, therapeutic resistance, and cancer stem cell phenotypes. Altered Hippo pathway regulation has also been associated with tissue fibrosis, cardiovascular disease, and regenerative disorders. Because WWTR1 occupies a central position downstream of Hippo pathway signaling, it has emerged as an important biomarker and therapeutic target for studies of oncogenic signaling, mechanobiology, regenerative medicine, and targeted cancer therapy.

NSJ Bioreagents' WWTR1 Antibody / Hippo Pathway Effector Antibody supports investigations into Hippo signaling, transcriptional regulation, mechanotransduction, stem cell biology, epithelial-to-mesenchymal transition, tissue regeneration, and cancer progression. Reliable detection of WWTR1 enables researchers to study one of the key transcriptional regulators controlling cell fate decisions, organ size, and cellular responses to mechanical and environmental cues.

Explore additional antibodies involved in Hippo signaling, tumor progression, and epithelial-to-mesenchymal transition on

our Cancer Antibodies page.

Application Notes

Optimal dilution of the WWTR1 Antibody / Hippo Pathway Effector Antibody should be determined by the researcher.

Immunogen

A synthetic partial protein derived from human WW domain-containing transcription regulator 1 protein (amino acids Q197-L400) was used as the immunogen for the WWTR1 Antibody.

Storage

WWTR1 Antibody is stable at -20oC for one year from date of receipt. After reconstitution, at 4oC for one month. It can also be aliquoted and stored frozen at -20oC for six months. Avoid repeated freeze-thaw cycles.

Alternate Names

WWTR1 antibody, TAZ antibody, Transcriptional Coactivator with PDZ-Binding Motif antibody, WW Domain Containing Transcription Regulator 1 antibody, Protein TAZ antibody, Hippo Pathway Effector TAZ antibody

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