WWTR1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	WWTR1, Polyclonal Antibody
Full Product Name	WWTR1, CT (WWTR1, TAZ, WW domain-containing transcription regulator protein 1, Transcriptional coactivator with PDZ-binding motif) (MaxLight 490)
Product Gene Name	anti-WWTR1 antibody
Product Synonym Names	WWTR1; TAZ; WW domain-containing transcription regulator protein 1; Transcriptional coactivator with PDZ-binding motif
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	44,101 Da
OMIM	607392
3D Structure	ModBase 3D Structure for Q9GZV5
Immunogen	WWTR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 369-398 amino acids from the C-terminal region of human WWTR1.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-WWTR1 antibody	Antibodies; PDZ Domain
Applications Tested/Suitable for anti-WWTR1 antibody	Western Blot (WB), FLISA
Application Notes for anti-WWTR1 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-WWTR1 antibody	Transcriptional coactivator which acts as a downstream regulatory target in the Hippo signaling pathway that plays a pivotal role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. The core of this pathway is composed of a kinase cascade wherein MST1/MST2, in complex with its regulatory protein SAV1, phosphorylates and activates LATS1/2 in complex with its regulatory protein MOB1, which in turn phosphorylates and inactivates YAP1 oncoprotein and WWTR1/TAZ. WWTR1 enhances PAX8 and NKX2-1/TTF1-dependent gene activation. Regulates the nuclear accumulation of SMADS and has a key role in coupling them to the transcriptional machinery such as the mediator complex. Regulates embryonic stem-cell self-renewal, promotes cell proliferation and epithelial-mesenchymal transition.

Product References and Citations for anti-WWTR1 antibody	Remue, E., et al. FEBS Lett. 584(19):4175-4180(2010). Strakova, Z., et al. Biol. Reprod. 82(6):1112-1118(2010). Cho, H.H., et al. J. Cell. Physiol. 223(1):168-177(2010). McGeachie, M., et al. Circulation 120(24):2448-2454(2009). Ferrara, A.M., et al. J. Endocrinol. Invest. 32(3):238-241(2009).
Other Notes	Small volumes of anti-WWTR1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for WWTR1 purchase	MBS6363869 is an antibody targeting WWTR1. Also known as WWTR1, CT (WWTR1, TAZ, WW domain-containing transcription regulator protein 1, Transcriptional coactivator with PDZ-binding motif) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for WWTR1. It may not necessarily be applicable to this product.

NCBI GI #	270132744
NCBI GeneID	25937
NCBI Accession #	NP_001161752.1
NCBI Related Accession #	NP_056287.1
UniProt Primary Accession #	Q9GZV5
UniProt Secondary Accession #	Q8N3P2; Q9Y3W6; D3DNH7
UniProt Related Accession #	Q9GZV5
GenBank Nucleotide #	NM_001168280.1
NCBI Official Full Name	WW domain-containing transcription regulator protein 1
NCBI Official Synonym Full Names	WW domain containing transcription regulator 1
NCBI Official Symbol	WWTR1
NCBI Official Synonym Symbols	TAZ
UniProt Protein Name	WW domain-containing transcription regulator protein 1
UniProt Synonym Protein Names	Transcriptional coactivator with PDZ-binding motif
Protein Family	WW domain-containing transcription regulator protein
UniProt Gene Name	WWTR1
UniProt Synonym Gene Names	TAZ
UniProt Entry Name	WWTR1_HUMAN
NCBI Protein Information	WW domain-containing transcription regulator protein 1; transcriptional co-activator with PDZ-binding motif; transcriptional coactivator with PDZ-binding motif

UniProt Comments for WWTR1	TAZ: Transcriptional coactivator which acts as a downstream regulatory target in the Hippo signaling pathway that plays a pivotal role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. The core of this pathway is composed of a kinase cascade wherein STK3/MST2 and STK4/MST1, in complex with its regulatory protein SAV1, phosphorylates and activates LATS1/2 in complex with its regulatory protein MOB1, which in turn phosphorylates and inactivates YAP1 oncoprotein and WWTR1/TAZ. WWTR1 enhances PAX8 and NKX2-1/TTF1-dependent gene activation. Regulates the nuclear accumulation of SMADS and has a key role in coupling them to the transcriptional machinery such as the mediator complex. Regulates embryonic stem-cell self-renewal, promotes cell proliferation and epithelial-mesenchymal transition. Binds to SLC9A3R2 via the PDZ motif at the plasma membrane. Binds to YWHAZ in vivo and in vitro through the phosphoserine-binding motif RSHSSP. Interacts (via coiled-coil domain) with SMAD2 (via MH1 domain), SMAD3 and SMAD4. Interacts with MED15, PAX8 and NKX2-1. Interacts with TEAD1, TEAD2, TEAD3 and TEAD4. Highly expressed in kidney, heart, placenta and lung. Expressed in the thyroid tissue. Protein type: Oncoprotein; Transcription, coactivator/corepressor Chromosomal Location of Human Ortholog: 3q23-q24 Cellular Component: nucleoplasm; transcription factor complex; cytoplasm; cytosol; nucleus Molecular Function: protein binding; protein homodimerization activity; transcription coactivator activity; transcription corepressor activity Biological Process: transcription initiation from RNA polymerase II promoter; SCF-dependent proteasomal ubiquitin-dependent protein catabolic process; transcription, DNA-dependent; stem cell division; multicellular organism growth; protein ubiquitination; negative regulation of transcription from RNA polymerase II promoter; negative regulation of fat cell differentiation; glomerulus development; osteoblast differentiation; mesenchymal cell differentiation; regulation of transcription, DNA-dependent; negative regulation of protein amino acid phosphorylation; transforming growth factor beta receptor signaling pathway; positive regulation of cell proliferation; negative regulation of protein kinase activity; gene expression; positive regulation of transcription from RNA polymerase II promoter
Research Articles on WWTR1	**1.** post-transcriptional regulation of Dicer is controlled by the cell density-mediated localization of the Hippo pathway effectors TAZ (transcriptional co-activator with PDZ-binding motif) and YAP (Yes-associated protein) (TAZ/YAP).
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