

Anti-WWOX Antibody

Catalog # AP53889

Product Information

Application WB, IF Primary Accession Q9NZC7

Reactivity Human, Mouse, Rat

HostRabbitClonalityPolyclonalCalculated MW46677

Additional Information

Gene ID 51741

Other Names FOR; WOX1; WW domain-containing oxidoreductase; Fragile site FRA16D

oxidoreductase

Target/Specificity KLH-conjugated synthetic peptide encompassing a sequence within the

N-term region of human WWOX. The exact sequence is proprietary.

Dilution WB~~1/500 - 1/1000 IF~~1/50 - 1/200

Format Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30%

glycerol, and 0.09% (W/V) sodium azide.

Storage Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name WWOX

Synonyms FOR, SDR41C1, WOX1

Function Putative oxidoreductase. Acts as a tumor suppressor and plays a role in

apoptosis. Required for normal bone development (By similarity). May function synergistically with p53/TP53 to control genotoxic stress-induced cell death. Plays a role in TGFB1 signaling and TGFB1-mediated cell death. May also play a role in tumor necrosis factor (TNF)-mediated cell death. Inhibits

Wnt signaling, probably by sequestering DVL2 in the cytoplasm.

Cellular Location Cytoplasm. Nucleus Mitochondrion. Golgi apparatus. Lysosome Note=Partially

localizes to the mitochondria (PubMed:14695174) Translocates to the nucleus upon genotoxic stress or TNF stimulation (By similarity). Translocates to the nucleus in response to TGFB1 (PubMed:19366691). Isoform 5 and isoform 6 may localize in the nucleus Localized to the lysosome probably upon binding

to VOPP1 (PubMed:30285739). {ECO:0000250,

ECO:0000269 | PubMed:14695174, ECO:0000269 | PubMed:19366691, ECO:0000269 | PubMed:30285739}

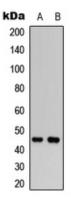
Tissue Location

Widely expressed. Strongly expressed in testis, prostate, and ovary. Overexpressed in cancer cell lines. Isoform 5 and isoform 6 may only be expressed in tumor cell lines

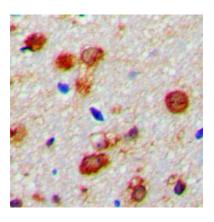
Background

Rabbit polyclonal antibody to WWOX

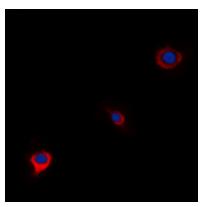
Images



Western blot analysis of WWOX expression in Raji (A), mouse brain (B) whole cell lysates.



Immunohistochemical analysis of WWOX staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of WWOX staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

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