ARG66833
anti-WWOX phospho (Tyr33) antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes WWOX phospho (Tyr33)
Tested Reactivity	Hu
Predict Reactivity	Ms
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	WWOX
Species	Human
Immunogen	Phosphospecific peptide around Tyr33 (between aa. 18-67) of Human WWOX.
Conjugation	Un-conjugated
Alternate Names	D16S432E; EC 1.1.1.-; FRA16D; FOR; WOX1; EIEE28; WW domain-containing oxidoreductase; Short chain dehydrogenase/reductase family 41C member 1; SCAR12; Fragile site FRA16D oxidoreductase; HHCMA56; PRO0128; SDR41C1

Application Instructions

Application table

Application	Dilution
IHC-P	1:100 - 1:300
WB	1:500 - 1:2000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

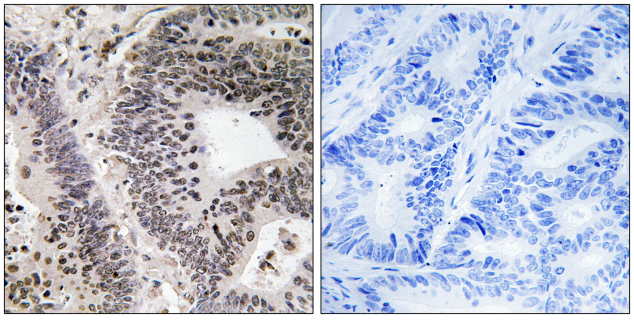
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.02% Sodium azide, 50% Glycerol and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol and 0.5% BSA
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

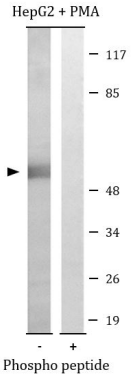
Gene Symbol	WWOX
Gene Full Name	WW domain containing oxidoreductase
Background	This gene encodes a member of the short-chain dehydrogenases/reductases (SDR) protein family. This gene spans the FRA16D common chromosomal fragile site and appears to function as a tumor suppressor gene. Expression of the encoded protein is able to induce apoptosis, while defects in this gene are associated with multiple types of cancer. Disruption of this gene is also associated with autosomal recessive spinocerebellar ataxia 12. Disruption of a similar gene in mouse results in impaired steroidogenesis, additionally suggesting a metabolic function for the protein. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]
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. [UniProt]
Calculated Mw	47 kDa
PTM	Phosphorylated upon genotoxic stress. Phosphorylation of Tyr-33 regulates interaction with TP53, TP73 and MAPK8. May also regulate proapoptotic activity. Phosphorylation by TNK2 is associated with polyubiquitination and degradation. Ubiquitinated when phosphorylated by TNK2, leading to its degradation. [UniProt]
Cellular Localization	Cytoplasm. Nucleus. Mitochondrion. Golgi apparatus. 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. [UniProt]

Images



ARG66833 anti-WWOX phospho (Tyr33) antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human colon carcinoma tissue stained with ARG66833 anti-WWOX phospho (Tyr33) antibody. The picture on the right is blocked with the phospho peptide.



ARG66833 anti-WWOX phospho (Tyr33) antibody WB image

Western blot: HepG2 cells treated with PMA (125 ng/ml for 30 min). Cell lysates were stained with ARG66833 anti-WWOX phospho (Tyr33) antibody. The lane on the right is blocked with the phospho peptide.