

WWOX (phospho Tyr33) rabbit pAb**Cat#: orb769436 (Manual)**

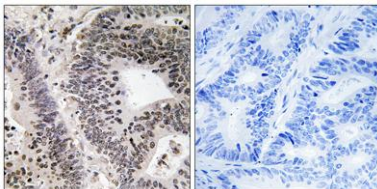
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Product Name	WWOX (phospho Tyr33) rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human WWOX around the phosphorylation site of Tyr33. AA range:18-67
Specificity	Phospho-WWOX (Y33) Polyclonal Antibody detects endogenous levels of WWOX protein only when phosphorylated at Y33.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	WW domain-containing oxidoreductase
Gene Name	WWOX
Cellular localization	
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal

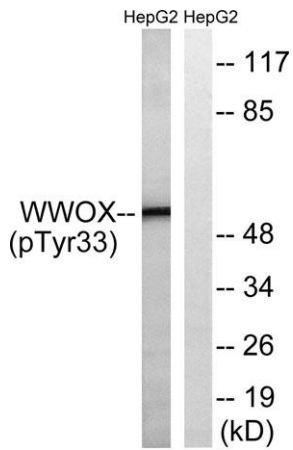
Concentration	1 mg/ml
Observed band	55kD
Human Gene ID	51741
Human Swiss-Prot Number	Q96KM3
Alternative Names	WFOX; FOR; WOX1; WW domain-containing oxidoreductase; Fragile site FRA16D oxidoreductase

Background

disease:Defects in WFOX may be involved in esophageal squamous cell carcinoma (ESCC) [MIM:133239].,disease:Defects in WFOX may be involved in several cancer types. The gene spans the second most common chromosomal fragile site (FRA16D) which is frequently altered in cancers. Alteration of the expression and expression of some isoforms is associated with cancers. However, it is still unclear if alteration of WFOX is directly implicated in cancerogenesis or if it corresponds to a secondary effect.,domain:The WW 1 domain mediates interaction with TP53, and probably TP73, TFAP2C, LITAF and WBP1.,function:Probable oxidoreductase, which acts as a tumor suppressor and plays a role in apoptosis. May function synergistically with TP53/p53 to control genotoxic stress-induced cell death. May also play a role in tumor necrosis factor (TNF)-mediated cell death.,PTM:Phosphorylated upon genotoxic stress. Phosphorylation of Tyr-33 regulates interaction with TP53, TP73 and MAPK8. May also regulate proapoptotic activity.,similarity:Belongs to the short-chain dehydrogenases/reductases (SDR) family.,similarity:Contains 2 WW domains.,subcellular location:Partially localizes to the mitochondria. Translocates to the nucleus upon genotoxic stress or TNF stimulation (By similarity). Isoform 5 and isoform 6 may localize in the nucleus.,subunit:Interacts with TP53, TP73/p73 and MAPK8. Interacts with MAPT/TAU (By similarity). Forms a ternary complex with TP53 and MDM2. Interacts with ERBB4, LITAF and WBP1. May interact with COTE1/C1orf2 and SCOTIN.,tissue specificity: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.,



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using WFOX (Phospho-Tyr33) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HepG2 cells treated with PMA 125ng/ml 30', using WWOX (Phospho-Tyr33) Antibody. The lane on the right is blocked with the phospho peptide.