

Recombinant Human WWOX, His-tagged

Cat. No. WWOX-31530TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 1-234 of human WWOX fused to His tag at N-terminus; 254 amino acids, 28.3 kDa.
Species	Human
Source	E.coli
ProteinLength	1-234 a.a.
Description	<p>WW domain-containing proteins are found in all eukaryotes and play an important role in the regulation of a wide variety of cellular functions such as protein degradation, transcription, and RNA splicing. This gene encodes a protein which contains 2 WW domains and a short-chain dehydrogenase/reductase domain (SRD). The highest normal expression of this gene is detected in hormonally regulated tissues such as testis, ovary, and prostate. This expression pattern and the presence of an SRD domain suggest a role for this gene in steroid metabolism. The encoded protein is more than 90% identical to the mouse protein, which is an essential mediator of tumor necrosis factor-alpha-induced apoptosis, suggesting a similar, important role in apoptosis for the human protein. In addition, there is evidence that this gene behaves as a suppressor of tumor growth. Alternative splicing of this gene generates transcript variants that encode different isoforms.</p>
Conjugation	HIS
Tissue specificity	Widely expressed. Strongly expressed in testis, prostate, and ovary. Overexpressed

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	in cancer cell lines. Isoform 5 and isoform 6 may only be expressed in tumor cell lines.
Form	Liquid
Storage buffer	Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MAALRYAGLD DTDSEDELPP GWEERTTKDG WVYYANHTEE KTQWEHPKTG KRKRVAGDLP YGWEQETDEN GQVFFVDHIN KRTTYLDPRL AFTVDDNPTK PTTRQRYDGS TTAMEILQGR DFTGKVVVVT GANSGIGFET AKSFALHGAH VILACRNMAR ASEAVSRILE EWQQGAATTV YCAAPELEG LGGMYFNNCC RCMPSPEAQS EETARTLWAL SERLIQERLG SQSG
Sequence Similarities	Belongs to the short-chain dehydrogenases/reductases (SDR) family. Contains 2 WW domains.

GENE INFORMATION

Gene Name	WWOX WW domain containing oxidoreductase [Homo sapiens]
Official Symbol	WWOX
Synonyms	WWOX; WW domain containing oxidoreductase; WW domain-containing oxidoreductase; FOR; SDR41C1; short chain dehydrogenase/reductase family 41C; member 1; WOX1;
Gene ID	51741

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mRNA Refseq	NM_016373
Protein Refseq	NP_057457
MIM	605131
Uniprot ID	Q9NZC7
Chromosome Location	16q23.3-q24.1
Pathway	ErbB4 signaling events, organism-specific biosystem;
Function	coenzyme binding; cofactor binding; nucleotide binding; oxidoreductase activity; oxidoreductase activity;

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