



Human WWOX peptide (DAG-P1312)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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. [provided by RefSeq, Jul 2008]
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.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the short-chain dehydrogenases/reductases (SDR) family. Contains 2 WW domains.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	WWOX WW domain containing oxidoreductase [Homo sapiens (human)]
Official Symbol	WWOX

Synonyms	WWOX; WW domain containing oxidoreductase; FOR; WOX1; FRA16D; SCAR12; HHCMA56; PRO0128; SDR41C1; D16S432E; WW domain-containing oxidoreductase; WW domain-containing protein WWOX; fragile site FRA16D oxidoreductase; short chain dehydrogenase/reductase family 41C, member 1;
Entrez Gene ID	51741
mRNA Refseq	NM_016373.2
Protein Refseq	NP_057457.1
UniProt ID	Q9NZC7
Chromosome Location	16q23.3-q24.1
Pathway	ErbB4 signaling events, organism-specific biosystem; Nuclear signaling by ERBB4, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by ERBB4, organism-specific biosystem;
Function	coenzyme binding; cofactor binding; enzyme binding; oxidoreductase activity; oxidoreductase activity; protein binding; protein dimerization activity;