

WWOX Antibody (Center Y287) Blocking Peptide
Synthetic peptide
Catalog # BP14312c**Specification**

WWOX Antibody (Center Y287) Blocking Peptide - Product InformationPrimary Accession [Q9NZC7](#)**WWOX Antibody (Center Y287) Blocking Peptide - Additional Information****Gene ID** 51741**Other Names**

WW domain-containing oxidoreductase, 111-, Fragile site FRA16D oxidoreductase, WWOX, FOR, WOX1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

WWOX Antibody (Center Y287) Blocking Peptide - 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

WWOX Antibody (Center Y287) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

WWOX Antibody (Center Y287) Blocking Peptide - Images

WWOX Antibody (Center Y287) Blocking Peptide - Background

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.

WWOX Antibody (Center Y287) Blocking Peptide - References

Maeda, N., et al. Virchows Arch. 457(4):423-432(2010) Baykara, O., et al. Tumour Biol. 31(4):315-320(2010) Kurek, K.C., et al. Cancer Res. 70(13):5577-5586(2010) Lin, J., et al. Zhonghua Gan Zang Bing Za Zhi 18(5):357-360(2010) Saez, M.E., et al. BMC Med. Genet. 11, 148 (2010) :