

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat WWOX in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human WWOX Asn36-Val126 Accession # Q9NZC7
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

WWOX (WW domain-containing oxidoreductase; also WOX1 and FOR) is a 46 kDa cytoplasmic member of the short-chain dehydrogenases/reductases (or SDR) family of molecules. It is expressed in divergent cell types such as breast epithelium, keratinocytes, osteoblasts, and osteoclasts. WWOX has multiple effects, one of which is that of tumor suppressor. Here, WWOX is likely activated by either TGF-β binding to surface hyaluronoglucosaminidase 2, or C1q binding to C1qR, which, in both cases, initiates cell apoptosis. Human WWOX is 414 amino acids (aa) in length and contains two WW (TrpTrp) domains (aa 16-90) with an intervening NLS (aa 50-55), plus an SDR region that contains a mitochondrial targeting sequence (aa 121-330). There are multiple phosphorylation sites and multiple splice variants that impact intracellular localization. One shows a deletion of aa 173-352, a second shows a Lys substitution for aa 36-414, a third contains a 17 aa substitution for aa 173-414, a fourth possesses a 76 aa substitution for aa 138-414, a fifth shows an 11 aa substitution for aa 353-414, while a sixth contains a 175 aa substitution for aa 137-414. Over aa 36-126, human and mouse WWOX are identical in aa sequence.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.