

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 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.

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