

## DESCRIPTION

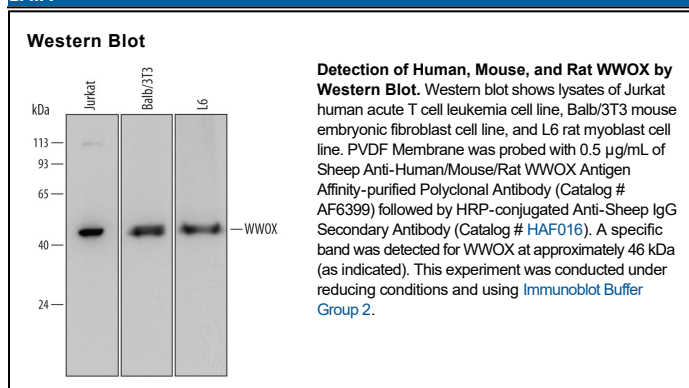
<b>Species Reactivity</b>	Human/Mouse/Rat
<b>Specificity</b>	Detects human, mouse, and rat WWOX in Western blots.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human WWOX Asn36-Val126 Accession # Q9NZC7
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

## 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.

	Recommended Concentration	Sample
<b>Western Blot</b>	0.5 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.