

WVOX (P-20): sc-20529

BACKGROUND

WVOX (WW domain containing oxidoreductase) protein is a candidate tumor suppressor consisting of two WW domains that influence protein-protein interactions, and a short chain dehydrogenase (SDR) domain, that influences sex-steroid metabolism. Modulation of the WVOX gene influences esophageal squamous cell carcinogenesis and tumorigenicity of breast cancer cell lines MDA-MB-435 and T47D. The murine homolog WOX1 localizes in the mitochondria, and contains a mitochondrial targeting sequence mapping within the SDR domain. JNK1 can physically associate with WOX1 and sequester WOX1-dependent apoptosis.

REFERENCES

1. Bednarek, A.K., et al. 2001. WVOX, the FRA16D gene, behaves as a suppressor of tumor growth. *Cancer Res.* 61: 8068-8073.
2. Kuroki, T., et al. 2002. Genetic alterations of the tumor suppressor gene WVOX in esophageal squamous cell carcinoma. *Cancer Res.* 62: 2258-2260.

CHROMOSOMAL LOCATION

Genetic locus: WVOX (human) mapping to 16q23.1; Wvox (mouse) mapping to 8 E1.

SOURCE

WVOX (P-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of WVOX of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-20529 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

WVOX (P-20) is recommended for detection of WVOX of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

WVOX (P-20) is also recommended for detection of WVOX in additional species, including equine, canine and bovine.

Suitable for use as control antibody for WVOX siRNA (h): sc-44193, WVOX siRNA (m): sc-155368, WVOX shRNA Plasmid (h): sc-44193-SH, WVOX shRNA Plasmid (m): sc-155368-SH, WVOX shRNA (h) Lentiviral Particles: sc-44193-V and WVOX shRNA (m) Lentiviral Particles: sc-155368-V.

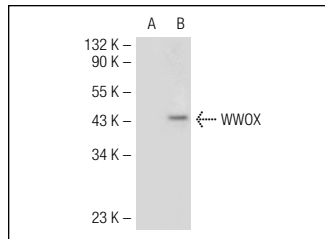
Molecular Weight of WVOX: 46 kDa.

Positive Controls: WVOX (m): 293T Lysate: sc-124659 or mouse ovary extract: sc-2404.

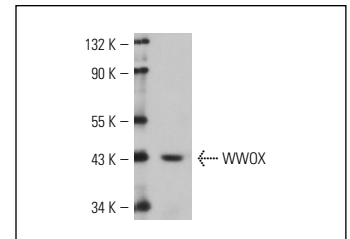
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/ 2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



WVOX (P-20): sc-20529. Western blot analysis of WVOX expression in non-transfected: sc-117752 (A) and mouse WVOX transfected: sc-124659 (B) 293T whole cell lysates.



WVOX (P-20): sc-20529. Western blot analysis of WVOX expression in mouse ovary tissue extract.

SELECT PRODUCT CITATIONS

1. Chen, S.T., et al. 2005. Light-induced retinal damage involves tyrosine 33 phosphorylation, mitochondrial and nuclear translocation of WW domain-containing oxidoreductase *in vivo*. *Neuroscience* 130: 397-407.
2. Pluciennik, E., et al. 2013. The WVOX tumor suppressor gene in endometrial adenocarcinoma. *Int. J. Mol. Med.* 32: 1458-1464.
3. Nowakowska, M., et al. 2014. Diverse effect of WVOX overexpression in HT29 and SW480 colon cancer cell lines. *Tumour Biol.* 35: 9291-9301.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.


 MONOS
Satisfaction
Guaranteed

Try **WVOX (C-7): sc-374449** or **WVOX (A-5): sc-373846**, our highly recommended monoclonal alternatives to WVOX (P-20).