

ARG43049 anti-WWOX antibody [3D10]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [3D10] recognizes WWOX
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	3D10
Isotype	IgG1
Target Name	WWOX
Species	Human
Immunogen	Recombinant protein corresponding to M1-D245 of Human WWOX.
Conjugation	Un-conjugated
Alternate Names	D16S432E; EC 1.1.1.-; FRA16D; FOR; WOX1; EIEE28; WW domain-containing oxidoreductase; Short chain dehydrogenase/reductase family 41C member 1; SCAR12; Fragile site FRA16D oxidoreductase; HHCMA56; PRO0128; SDR41C1

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	ICC/IF	1:200 - 1:1000
	IHC-P	1:200 - 1:1000
	WB	1:500 - 1:2000
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

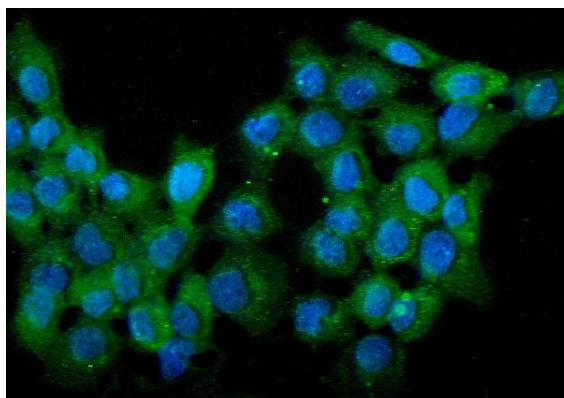
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

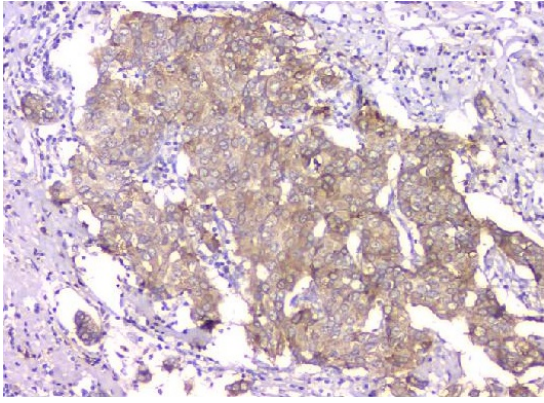
Gene Symbol	WWOX
Gene Full Name	WW domain containing oxidoreductase
Background	This gene encodes a member of the short-chain dehydrogenases/reductases (SDR) protein family. This gene spans the FRA16D common chromosomal fragile site and appears to function as a tumor suppressor gene. Expression of the encoded protein is able to induce apoptosis, while defects in this gene are associated with multiple types of cancer. Disruption of this gene is also associated with autosomal recessive spinocerebellar ataxia 12. Disruption of a similar gene in mouse results in impaired steroidogenesis, additionally suggesting a metabolic function for the protein. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]
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. [UniProt]
Calculated Mw	47 kDa
PTM	Phosphorylated upon genotoxic stress. Phosphorylation of Tyr-33 regulates interaction with TP53, TP73 and MAPK8. May also regulate proapoptotic activity. Phosphorylation by TNK2 is associated with polyubiquitination and degradation. Ubiquitinated when phosphorylated by TNK2, leading to its degradation. [UniProt]
Cellular Localization	Cytoplasm. Nucleus. Mitochondrion. Golgi apparatus. 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. [UniProt]

Images



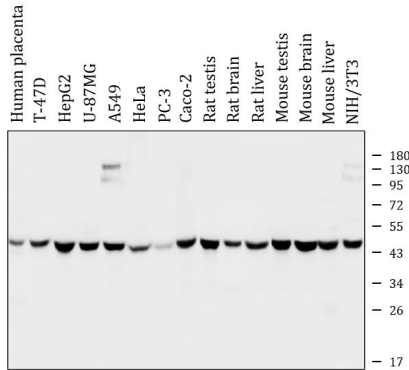
ARG43049 anti-WWOX antibody [3D10] ICC/IF image

Immunofluorescence: A431 cells were blocked with 10% goat serum and then stained with ARG43049 anti-WWOX antibody [3D10] (green) at 5 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



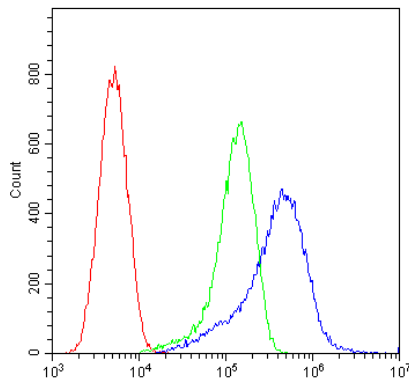
ARG43049 anti-WWOX antibody [3D10] IHC-P image

Immunohistochemistry: Paraffin-embedded Human mammary cancer tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43049 anti-WWOX antibody [3D10] at 1 µg/ml dilution, overnight at 4°C.



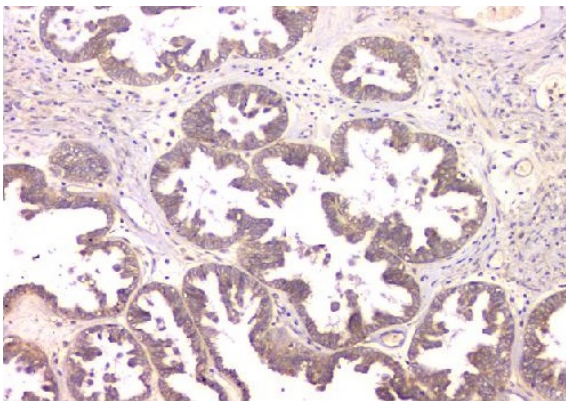
ARG43049 anti-WWOX antibody [3D10] WB image

Western blot: 50 µg of sample under reducing conditions. Human placenta, T-47D, HepG2, U-87MG, A549, HeLa, PC-3, Caco-2, Rat testis, Rat brain, Rat liver, Mouse testis, Mouse brain, Mouse liver and NIH/3T3 whole cell lysates stained with ARG43049 anti-WWOX antibody [3D10] at 0.5 µg/ml dilution, overnight at 4°C.



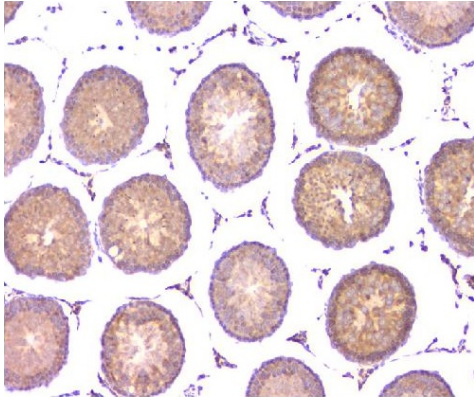
ARG43049 anti-WWOX antibody [3D10] FACS image

Flow Cytometry: U2OS cells were blocked with 10% normal goat serum and then stained with ARG43049 anti-WWOX antibody [3D10] (blue) at 1 µg/10⁶ cells for 30 min at 20°C, followed by incubation with DyLight[®]488 labelled secondary antibody. Isotype control antibody (green) was mouse IgG (1 µg/10⁶ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



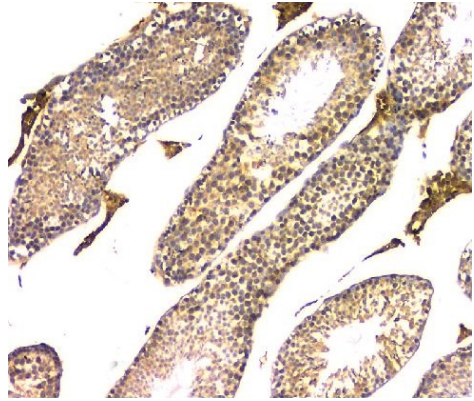
ARG43049 anti-WWOX antibody [3D10] IHC-P image

Immunohistochemistry: Paraffin-embedded Human ovarian cancer tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43049 anti-WWOX antibody [3D10] at 1 µg/ml dilution, overnight at 4°C.



ARG43049 anti-WWOX antibody [3D10] IHC-P image

Immunohistochemistry: Paraffin-embedded Rat testis tissue.
Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43049 anti-WWOX antibody [3D10] at 1 μ g/ml dilution, overnight at 4°C.



ARG43049 anti-WWOX antibody [3D10] IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse testis tissue.
Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43049 anti-WWOX antibody [3D10] at 1 μ g/ml dilution, overnight at 4°C.