

Datasheet: VMA00801

BATCH NUMBER 100004338

Description:	MOUSE ANTI WWOX
Specificity:	WWOX
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	CD03/3H9
Isotype:	IgG1
Quantity:	100 µl

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species	Human
Product Form	Purified IgG - Liquid
Preparation	Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	<i>E. coli</i> -derived recombinant protein of amino acids 1-414 of human WWOX

**External Database
Links**

UniProt:

[Q9NZC7](#) [Related reagents](#)

Entrez Gene:

[51741](#) WWOX [Related reagents](#)

Synonyms

FOR, WOX1

Fusion Partners

Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line

Specificity

Mouse anti WWOX antibody recognizes WW domain-containing oxidoreductase, also known as FOR, SDR41C1, and WOX1.

WWOX is an adaptor protein with significant roles in physiology and homeostasis. WWOX contributes to repair of double strand breaks in DNA by non-homologous end-joining (NHEJ) ([Schrock et al. 2017](#)). Deregulation of WWOX can lead to several severe pathological states. In particular, WWOX is relevant to neurodegeneration. Homozygous null mutation of WWOX leads to a range of neural diseases, metabolic disorders and death in newborn humans. The gene is also often downregulated in Alzheimer's disease ([Liu et al. 2018](#)). WWOX functions as a tumor suppressor, loss of WWOX has been found in various tumors including breast, colon, esophageal, gastric, lung, ovarian, and prostate cancers ([Tanna and Aqeilan 2018](#)). WWOX is also involved with resistance of cancer cells to radiation and cisplatin. Deficiency of WWOX has been associated with shorter overall survival times in cancer patients treated with radiation ([Schrock et al. 2017](#)).

Western Blotting

Mouse anti WWOX antibody detects a band of approximately 41 kDa in HEK293 cell lysates

Storage

Store undiluted at -20°C, avoiding repeated freeze thaw cycles

Guarantee

12 months from date of despatch

Acknowledgements

PrecisionAb is a trademark of Bio-Rad Laboratories

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/VMA00801>
Antibody (10040)

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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