

Datasheet: VMA00796

Description:	MOUSE ANTI DDX48
Specificity:	DDX48
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	AB02/3F4
Isotype:	IgG2a
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

Species Cross Reactivity

Reacts with: Mouse, Rat

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

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 1-411 of human DDX48
External Database Links	<p>UniProt: P38919 Related reagents</p> <p>Entrez Gene: 9775 EIF4A3 Related reagents</p>
Synonyms	DDX48, KIAA0111
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
Specificity	<p>Mouse anti DDX48 antibody recognizes eukaryotic initiation factor 4A-III, also known as eIF-4A-III (EIF4A3) and NMP 265.</p> <p>DDX48 is a core component of exon junction complexes (EJCs) which act as molecular markers for post-transcriptional gene regulation (Ryu et al. 2019). Specifically, DDX48 regulates the exon junction complex and nonsense-mediated mRNA decay during processing of mRNA transcripts. DDX48 mutations have been identified in Richieri-Costa-Pereira syndrome, characterized by craniofacial anomalies and severe limb defects (Mazloomian et al. 2019). Accordingly, the 5' untranslated region of DDX48 has been identified as an essential factor for craniofacial and neural development (Hsia et al. 2018). DDX48 dysfunction has been identified in cancer, overexpressed at the transcriptional level in several human malignancies. This result is consistent with the known regulation of apoptosis and the cell cycle by DDX48 via several cancer-related pathways (Lin et al. 2018).</p>
Western Blotting	Mouse anti DDX48 antibody detects a band of approximately 46 kDa in HeLa 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: Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL (MCA929)

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

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