

Datasheet: VMA00796

**BATCH NUMBER 100004327**

<b>Description:</b>	MOUSE ANTI DDX48
<b>Specificity:</b>	DDX48
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	AB02/3F4
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Mouse, Rat <b>N.B.</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.
<b>Product Form</b>	Purified IgG - Liquid
<b>Preparation</b>	Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide

## Stabilisers

---

**Approx. Protein Concentrations** IgG concentration 1.0 mg/ml

---

**Immunogen** *E. coli*-derived recombinant protein of amino acids 1-411 of human DDX48

---

## External Database Links

**UniProt:**

[P38919](#)    [Related reagents](#)

**Entrez Gene:**

[9775](#)    EIF4A3    [Related reagents](#)

---

**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** **Mouse anti DDX48 antibody** recognizes eukaryotic initiation factor 4A-III, also known as eIF-4A-III (EIF4A3) and NMP 265.

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](#)).

---

**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: <https://www.bio-rad-antibodies.com/SDS/VMA00796>  
Antibody (10040)

---

**Regulatory** For research purposes only

---

## Related Products

## Recommended Secondary Antibodies

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

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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

'M375073:201216'

**Printed on 10 Apr 2024**

---

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)