

## Datasheet: VMA00312

<b>Description:</b>	MOUSE ANTI EIF2AK2
<b>Specificity:</b>	EIF2AK2
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	1441CT628.33.40
<b>Isotype:</b>	IgG1
<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>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Mouse monoclonal antibody prepared by affinity chromatography on Protein G from ascites.
<b>Buffer Solution</b>	Phosphate buffered saline.
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ).
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5 mg/ml.
<b>Immunogen</b>	Recombinant EIF2AK2

**External Database  
Links**

**UniProt:**

[P19525](#)   [Related reagents](#)

**Entrez Gene:**

[5610](#)   EIF2AK2   [Related reagents](#)

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**Synonyms**

PKR, PRKR

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**Specificity**

**Mouse anti Human EIF2AK2 antibody** recognizes the interferon-induced, double-stranded RNA-activated protein kinase, also known as P1/eIF-2A protein kinase, eIF-2A protein kinase 2, interferon-induced, interferon-inducible eIF2alpha kinase, p68 kinase, protein kinase, interferon-inducible double stranded RNA dependent, protein phosphatase 1, regulatory subunit 83 and tyrosine-protein kinase EIF2AK2.

Encoded by the EIF2AK2 gene, interferon-induced, double-stranded RNA-activated protein kinase is a serine/threonine protein kinase that is activated by autophosphorylation after binding to dsRNA. The activated form of the encoded protein can phosphorylate translation initiation factor EIF2S1, which in turn inhibits protein synthesis. This protein is also activated by manganese ions and heparin. Three transcript variants encoding two different isoforms have been found for EIF2AK2 (provided by RefSeq, Oct 2011).

Mouse anti Human EIF2AK2 antibody detects a band of 74 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

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**Western Blotting**

Anti EIF2AK2 detects a band of approximately 74 kDa in HEK293 cell lysates.

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**Storage**

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

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**Guarantee**

12 months from date of despatch.

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**Acknowledgements**

PrecisionAb is a trademark of Bio-Rad Laboratories.

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**Health And Safety  
Information**

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

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**Regulatory**

For research purposes only.

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## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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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](https://bio-rad-antibodies.com/datasheets)

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