

Datasheet: VMA00965

**BATCH NUMBER 100005801**

<b>Description:</b>	MOUSE ANTI GADD45A
<b>Specificity:</b>	GADD45A
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	GH02/2F4
<b>Isotype:</b>	IgG2b
<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
Immunoprecipitation	▪			
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 affinity purified on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant protein of amino acids 1-165 of human GADD45A

<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P24522</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">1647</a> GADD45A <a href="#">Related reagents</a>
<b>Synonyms</b>	DDIT1, GADD45
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
<b>Specificity</b>	<p><b>Mouse anti GADD45A antibody</b> recognizes growth arrest and DNA damage-inducible protein GADD45 alpha, also known as DDIT-1, GADD45. GADD45A is a stress response protein belonging to the DNA damage-inducible 45 family and promotes active DNA methylation (<a href="#">Arab et al. 2019</a>). In response to physiological or environmental stress GADD45A assists in DNA repair, cell cycle arrest and apoptosis, and other growth regulatory processes (<a href="#">Liu et al. 2018</a>). A broad range of signaling pathways are linked to GADD45S, including p38 and JNK MAP kinases, BRCA1, FOXO3 and ATF4. Accordingly, GADD45A has been shown to interact with a variety of proteins including cdc2. GADD45A is a direct transcriptional target of the tumor suppressor FOXO3A (<a href="#">Han et al. 2019</a>). It is also a downstream target of p53 and BRCA1. Because it plays a role in genome stability, GADD45A has been implicated in a range of cancer types. Elevated GADD45A levels have been observed in esophageal squamous cell carcinoma and breast cancer, for example (<a href="#">Wang et al. 2018</a>).</p>
<b>Western Blotting</b>	Mouse anti GADD45A detects a band of approximately 23 kDa in Jurkat cell lysates
<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/VMA00965">https://www.bio-rad-antibodies.com/SDS/VMA00965</a> Antibody (10040)
<b>Regulatory</b>	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)  
'M390079:210823'

**Printed on 13 Aug 2023**

---

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)