

Datasheet: VMA00965

Description:	MOUSE ANTI GADD45A
Specificity:	GADD45A
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	GH02/2F4
Isotype:	IgG2b
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
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.

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 1-165 of human GADD45A

**External Database
Links**

UniProt:

[P24522](#) [Related reagents](#)

Entrez Gene:

[1647](#) GADD45A [Related reagents](#)

Synonyms

DDIT1, GADD45

Fusion Partners

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

Specificity

Mouse anti GADD45A antibody 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 ([Arab et al. 2019](#)). In response to physiological or environmental stress GADD45A assists in DNA repair, cell cycle arrest and apoptosis, and other growth regulatory processes ([Liu et al. 2018](#)). 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 ([Han et al. 2019](#)). 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 ([Wang et al. 2018](#)).

Western Blotting

Mouse anti GADD45A detects a band of approximately 23 kDa in Jurkat 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/VMA00965>
Antibody (10040)

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

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

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