

Datasheet: VMA00046

BATCH NUMBER 171445

Description:	MOUSE ANTI GAPDH
Specificity:	GAPDH
Other names:	Glyceraldehyde-3-Phosphate Dehydrogenase
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	4G5
Isotype:	IgG1
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
Immunofluorescence	▪			

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 purified by affinity chromatography on Protein A from tissue culture supernatant.
Buffer Solution	Phosphate buffered saline.
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃).
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml.

Immunogen	Human GAPDH from cardiac muscle
External Database Links	<p>UniProt: P04406 Related reagents</p> <p>Entrez Gene: 2597 GAPDH Related reagents</p>
Synonyms	GAPD
Specificity	<p>Mouse anti Human GAPDH antibody, clone 4G5 recognizes glyceraldehyde-3-phosphate dehydrogenase (GAPDH), a 335 amino acid multifunctional protein whose main function is to catalyse the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate, in conjunction with inorganic phosphate and nicotinamide adenine dinucleotide (NAD). This reaction is an important energy yielding step in carbohydrate metabolism.</p> <p>GAPDH has also been shown to translocate to the nucleus under a variety of stressors, most of which are associated with oxidative stress, whereby it mediates cell death. A further report has shown that GAPDH binds to several proteins that are responsible for neurodegenerative diseases, such as amyloid precursor protein and huntingtin (Burke et al. 1996).</p> <p>Mouse anti Human GAPDH antibody, clone 4G5 recognizes human GAPDH as a single band of ~36 kDa by western blotting in a variety of human cell line lysates under reducing conditions.</p>
Western Blotting	Anti GAPDH antibody detects a band of approximately 36 kDa in HEK293 cell lysates.
References	1. Reißing, J. <i>et al.</i> (2024) Th2 Cell Activation in Chronic Liver Disease Is Driven by Local IL33 and Contributes to IL13-Dependent Fibrogenesis. Cell Mol Gastroenterol Hepatol. 17 (4): 517-538.
Storage	This product is shipped at ambient temperature. 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/VMA00046
Regulatory	For research purposes only.

Related Products

Recommended Secondary Antibodies

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M441689:250523'

Printed on 23 Dec 2025

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