

Datasheet: VMA00948

BATCH NUMBER 100005802

Description:	MOUSE ANTI GNB3
Specificity:	GNB3
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	EF01/1A12
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

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

Stabilisers

Approx. Protein Concentrations

IgG concentration 1.0 mg/ml

Immunogen

E. coli-derived recombinant protein of amino acids 1-340 of human GNB3

External Database Links

UniProt:

[P16520](#)

[Related reagents](#)

Entrez Gene:

[2784](#)

GNB3

[Related reagents](#)

Fusion Partners

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

Specificity

Mouse anti GNB3 antibody recognizes guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-3, also known as transducin beta chain 3. GNB3 is the beta3 subunit of G-protein. G proteins transmit information from G-protein-coupled receptors at the plasma membrane to intracellular signaling pathways, regulating a variety of biochemical processes ([Syrovatkina et al. 2016](#)) including cell growth and mitosis ([Wang and Zhang 2014](#)). G-proteins, and also GNB3, appear to be associated with obesity. Duplication of the gene encoding GNB3 has been linked to an obesity phenotype in humans and in mice ([Li et al. 2016](#)). The C825T polymorphism (rs5443) of GNB3 has been associated with obesity, essential hypertension, atherosclerosis, coronary diseases, and cerebrovascular events with sex-specific effects ([Gbadoe et al. 2016](#)).

Western Blotting

Mouse anti GNB3 detects a band of approximately 32 kDa in mouse brain tissue 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/VMA00948>
Antibody (10040)

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

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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

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