

Datasheet: VMA00887

BATCH NUMBER 100004572

Description:	MOUSE ANTI GNL3
Specificity:	GNL3
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	AB03/2F7
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
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	<p>Reacts with: Mouse</p> <p>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.</p>
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 1-226 of human GNL3

External Database Links

UniProt:

[Q9BVP2](#)

[Related reagents](#)

Entrez Gene:

[26354](#)

GNL3

[Related reagents](#)

Synonyms

E2IG3, NS

Fusion Partners

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

Specificity

Mouse anti GNL3 antibody recognizes guanine nucleotide-binding protein-like 3, also known as NNP47, E2IG3, NS, and nucleostemin.

Nucleostemin is a nucleolar protein, but rapidly shuttles between the nucleolar and nucleoplasmic compartments when bound to GTP, and this shuttling is regulated by multiple control mechanisms ([Kavyasudha et al. 2018](#)). It appears to play a role in protecting DNA damage, both on the telomeres and non-telomeric regions of the chromosomes. It is highly expressed in various types of stem cells, tumors, and cancer stem cells, and is expressed at a much lower level in differentiated cells ([Tsai et al. 2014](#)), appearing to play a role in the cell cycle and proliferation of rapidly-dividing cells ([Kavyasudha et al. 2018](#)). Accordingly, nucleostemin contributes to formation of blastocysts, embryogenesis, regeneration of postnatal tissue, reprogramming of cells to pluripotency, and cancer development ([Tsai et al. 2014](#)). Nucleostemin is highly expressed in a wide variety of cancers, and could serve as a marker for tumor progression and poor patient outcome ([Sami et al. 2019](#)).

Western Blotting

Mouse anti GNL3 antibody detects a band of approximately 65 kDa in HEK293 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/VMA00887>
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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