

Datasheet: VMA00946

BATCH NUMBER 100005796

Description:	MOUSE ANTI NOB1
Specificity:	NOB1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	F02/5F11
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	▪			1/10000

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 1-412 of human NOB1

External Database Links

UniProt:

[Q9ULX3](#) [Related reagents](#)

Entrez Gene:

[28987](#) NOB1 [Related reagents](#)

Synonyms ART4, NOB1P, PSMD8BP1

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

Specificity **Mouse anti NOB1 antibody** recognizes RNA-binding protein NOB1, also known as ART4, NOB1P, and PSMD8BP1. NOB1 is a component of the 26S proteasome and plays an important role in protease function and RNA metabolism ([Liu et al. 2015](#)). It acts as a chaperone, joining the 20S proteasome with 19S regulatory particle in the nucleus and facilitating maturation of the 20S proteasome. NOB1 has been suggested to play a role in cell cycle progression, drug resistance and tumorigenesis ([Li et al. 2013](#)). Abnormal NOB1 expression may lead to dysfunctions in protein synthesis and protein degradation. Given that rapidly growing cancer cells have a high requirement for protein, dysregulation of NOB1 can be involved with cancer. Accordingly, many roles have been found for NOB1 in the development of cancer ([Luo et al. 2018](#)). NOB1 expression is upregulated in a variety of malignancies including prostate carcinoma, thyroid cancer, breast infiltrating ductal carcinoma and non-small lung cancer ([Lin et al. 2015](#)).

Western Blotting Mouse anti NOB1 detects a band of approximately 49 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/VMA00946>
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

'M390074:210823'

Printed on 13 Aug 2023

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