

Datasheet: VMA00946

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|----------------------|------------------------|
| 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 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 1-412 of human NOB1 |
| External Database Links | <p>UniProt: Q9ULX3 Related reagents</p> <p>Entrez Gene: 28987 NOB1 Related reagents</p> |
| 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 | <p>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).</p> |
| 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: Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf |
| Regulatory | For research purposes only |

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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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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