

## Datasheet: VMA00885

<b>Description:</b>	MOUSE ANTI NUCLEAR CAP BINDING PROTEIN SUBUNIT 1
<b>Specificity:</b>	NUCLEAR CAP BINDING PROTEIN SUBUNIT 1
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	EF03/2E5-3
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Immunoprecipitation	▪			
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.

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

## Stabilisers

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**Approx. Protein Concentrations** IgG concentration 1.0 mg/ml

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**Immunogen** *E. coli*-derived recombinant protein of amino acids 1-528 of human nuclear cap binding protein subunit 1

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**External Database Links**

**UniProt:**  
[Q09161](#)    [Related reagents](#)

**Entrez Gene:**  
[4686](#)    NCBP1    [Related reagents](#)

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**Synonyms** CBP80, NCBP

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

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**Specificity** **Mouse anti nuclear cap binding protein subunit 1 antibody** recognizes nuclear cap-binding protein subunit 1, also known as CBP80.

The adaptor protein NCPB1, along with NCBP2, comprise the cap-binding complex (CBC). The CBC binds the RNA cap and orchestrates multiple stages of RNA processing including pre-mRNA splicing, 3'-end processing, and recruitment of translation factors in the cytoplasm ([Gebhardt et al. 2015](#)). Nuclear cap binding protein subunit 1 promotes growth of lung cancer cells, wound healing ability, migration and epithelial-mesenchymal transition, and nuclear cap binding protein subunit 1 is overexpressed in several lung cancer tissues and cell lines. Silencing of nuclear cap binding protein subunit 1 in HeLa cells has been found to reduce cell growth rate ([Zhang et al. 2019](#)).

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**Western Blotting** Mouse anti nuclear cap binding protein subunit 1 antibody detects a band of approximately 81 kDa in HEK293 cell lysates

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**Storage** Store undiluted at -20°C, avoiding repeated freeze thaw cycles

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**Guarantee** 12 months from date of despatch

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**Acknowledgements** PrecisionAb is a trademark of Bio-Rad Laboratories

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: Antibody (10040): <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

## Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

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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](https://bio-rad-antibodies.com/datasheets)

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