

Datasheet: VMA00908

BATCH NUMBER 100005036

Description:	MOUSE ANTI NCK2
Specificity:	NCK2
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	I01/7A10
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
Product Form	Purified IgG - liquid
Preparation	Mouse monoclonal antibody purified by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	<i>E. coli</i> -derived recombinant protein, aa 1-306 of human NCK2

External Database**Links****UniProt:**[O43639](#) [Related reagents](#)**Entrez Gene:**[8440](#) NCK2 [Related reagents](#)

Specificity**Mouse anti NCK2 antibody** recognizes cytoplasmic protein NCK2, also known as GRB4.

NCK2, alongside NCK1, comprise the NCK family of SH2/SH3-containing adaptor proteins. These proteins couple activated membrane receptors to specific downstream effectors, with a range of biological effects. Both proteins can regulate cell adhesion and migration via tyrosine phosphorylation and cytoskeletal remodeling ([Morris et al. 2017](#)). Despite their similarity, NCK1 and NCK2 appear to have distinct roles ([Labelle-Côté et al. 2011](#)). For example, NCK2 but not NCK1 appears to be involved with specific processes of axon trajectory during limb development ([Chang et al. 2018](#)). NCK2, but not NCK1, also appears to be a positive regulator of stimulation of the Erk pathway via the T cell antigen receptor during the activation of T lymphocytes ([Ngoenkam et al. 2014](#)). In cancer, NCK2 overexpression has been identified in human metastatic melanoma compared with non-metastatic melanoma ([Labelle-Côté et al. 2011](#)). NCK has been identified as a driver of breast cancer progression and metastasis, and has been suggested as a therapeutic target in aggressive cancers ([Morris et al. 2017](#)).

Western Blotting

Mouse anti NCK2 antibody detects a band of approximately 48 kDa in THP-1 cell lysates

Storage

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

Guarantee

As supplied, 12 months from date of despatch

Acknowledgements

PrecisionAb is a trademark of Bio-Rad Laboratories

Health And Safety InformationMaterial Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/VMA00908>
10040

Regulatory

For research purposes only

North & South

Tel: +1 800 265 7376

America

Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

'M376310:210127'

Printed on 13 Aug 2023