

Datasheet: VMA00908

**BATCH NUMBER 100005036**

<b>Description:</b>	MOUSE ANTI NCK2
<b>Specificity:</b>	NCK2
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	I01/7A10
<b>Isotype:</b>	IgG1
<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
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>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Mouse monoclonal antibody purified by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant protein, aa 1-306 of human NCK2

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

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**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](#)).

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**Western Blotting**

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

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**Storage**

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

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**Guarantee**

As supplied, 12 months from date of despatch

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**Acknowledgements**

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

For research purposes only

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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://www.bio-rad-antibodies.com/datasheets)

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