

## Datasheet: VMA00871

<b>Description:</b>	MOUSE ANTI CDC42
<b>Specificity:</b>	CDC42
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	16C2-C10
<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 A 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 0.5 mg/ml
<b>Immunogen</b>	Synthetic peptide corresponding to CDC42 amino acids 121 to 150

**External Database  
Links**

**UniProt:**

[P60953](#)    [Related reagents](#)

**Entrez Gene:**

[998](#)    CDC42    [Related reagents](#)

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**Specificity**

**Mouse anti CDC42 antibody** recognizes cell division control protein 42 homolog (CDC42), also known as G25K GTP-binding protein.

CDC42 is a small ubiquitously-expressed GTPase of the Rho family and has been implicated in a range of cellular processes including cytoskeleton organization and membrane trafficking, and achieves this by regulating multiple signaling pathways. It cycles between an inactive GDP-bound state and an active GTP-bound state through exchange of GDP for GTP ([Arias-Romero and Chernoff 2013](#)). During development, CDC42 is important for formation of the pancreas, blood cells, eyes, and skin ([Xiao et al. 2018](#)). CDC42 has been closely associated with cancer, including processes of cell cycle progression, migration and invasion, tumor growth, angiogenesis and transformation ([del Mar Maldonado and Dharmawardhane 2018](#)). Abnormal CDC42 expression has been found in most human cancers and acts to promote metastasis ([Xiao et al. 2018](#)).

Mouse anti CDC24 antibody recognizes epitope sequence corresponding to amino acids 137 to 142 of CDC24.

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**Western Blotting**

Anti CDC42 detects a band of approximately 22 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**

As supplied, 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:  
<https://www.bio-rad-antibodies.com/SDS/VMA00871>  
10040

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**Regulatory**

For research purposes only

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## Related Products

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

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