

Datasheet: VMA00871

BATCH NUMBER 157717

Description:	MOUSE ANTI CDC42
Specificity:	CDC42
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	16C2-C10
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 A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Synthetic peptide corresponding to CDC42 amino acids 121 to 150

External Database**Links****UniProt:**

[P60953](#) [Related reagents](#)

Entrez Gene:

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

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.

Western Blotting

Anti CDC42 detects a band of approximately 22 kDa in HEK293 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 Information

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/VMA00871>
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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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Printed on 19 Jan 2024
