

Datasheet: VMA00871

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|----------------------|------------------------|
| 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. Learn about [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

This product is shipped at ambient temperature.
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>

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

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

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