

Datasheet: VMA00902

Description:	MOUSE ANTI RAB5A
Specificity:	RAB5A
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	rCD01-2G10
Isotype:	IgG2a
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

Species Cross Reactivity

Reacts with: Mouse, Rat

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Recombinant IgG prepared by affinity chromatography on Protein A from cell culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative

0.09% Sodium Azide (NaN₃)

Stabilisers

Approx. Protein Concentrations

IgG concentration 1.0 mg/ml

Immunogen

E. coli-derived recombinant protein of amino acids 1-215 of human RAB5A

External Database Links

UniProt:

[P20339](#)

[Related reagents](#)

Entrez Gene:

[5868](#)

RAB5A

[Related reagents](#)

Synonyms

RAB5

Specificity

Mouse anti RAB5A antibody recognizes ras-related protein Rab-5A, also known as RAB5.

RAB5A is a member of the Rab family of small GTPases and acts as an important rate-limiting component for regulation of endocytosis and early endosome fusion, and also plays a role in autophagy ([Xu et al. 2018](#)). Accordingly, RAB5A regulates transport between the plasma membrane and early endosomes ([Bucci et al. 1994](#)). However, RAB5A plays diverse biological roles. In oocytes during meiosis, the protein is required for control of spindle length and kinetochore-microtubule attachment ([Ma et al. 2014](#)). RAB5A is also involved with regulation of T cell motility, important for the adaptive immune response ([Ong et al. 2014](#)). Rab proteins play a role in the regulation of cancer progression, and RAB5A is overexpressed in several human cancers ([Zhang et al. 2017](#)). More specifically, aberrant RAB5A expression contributes to increased distant metastasis. For example, RAB5A is involved with metastatic potential of lung and gastric cancer ([Yu et al. 2015](#)).

Western Blotting

Mouse anti RAB5A antibody detects a band of approximately 25 kDa in HeLa 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: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

North & South Tel: +1 800 265 7376

Worldwide Tel: +44 (0)1865 852 700

Europe Tel: +49 (0) 89 8090 95 21

America Fax: +1 919 878 3751

Fax: +44 (0)1865 852 739

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@bio-rad.com

Email: antibody_sales_de@bio-rad.com

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

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