

Datasheet: VMA00902

**BATCH NUMBER 100007440**

<b>Description:</b>	MOUSE ANTI RAB5A
<b>Specificity:</b>	RAB5A
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	rCD01-2G10
<b>Isotype:</b>	IgG2a
<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.

### 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

<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 of amino acids 1-215 of human RAB5A
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P20339</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">5868</a>    RAB5A    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	RAB5
<b>Specificity</b>	<p><b>Mouse anti RAB5A antibody</b> recognizes ras-related protein Rab-5A, also known as RAB5.</p> <p>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 (<a href="#">Xu et al. 2018</a>). Accordingly, RAB5A regulates transport between the plasma membrane and early endosomes (<a href="#">Bucci et al. 1994</a>). However, RAB5A plays diverse biological roles. In oocytes during meiosis, the protein is required for control of spindle length and kinetochore-microtubule attachment (<a href="#">Ma et al. 2014</a>). RAB5A is also involved with regulation of T cell motility, important for the adaptive immune response (<a href="#">Ong et al. 2014</a>). Rab proteins play a role in the regulation of cancer progression, and RAB5A is overexpressed in several human cancers (<a href="#">Zhang et al. 2017</a>). More specifically, aberrant RAB5A expression contributes to increased distant metastasis. For example, RAB5A is involved with metastatic potential of lung and gastric cancer (<a href="#">Yu et al. 2015</a>).</p>
<b>Western Blotting</b>	Mouse anti RAB5A antibody detects a band of approximately 25 kDa in HeLa cell lysates
<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles
<b>Guarantee</b>	As supplied, 12 months from date of despatch
<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/VMA00902">https://www.bio-rad-antibodies.com/SDS/VMA00902</a> 10040
<b>Regulatory</b>	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://bio-rad-antibodies.com/datasheets)

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