

Datasheet: VMA00902

BATCH NUMBER 100005041

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 Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	<i>E. coli</i> --derived recombinant protein of amino acids 1-215 of human RAB5A
External Database Links	<p>UniProt: P20339 Related reagents</p> <p>Entrez Gene: 5868 RAB5A Related reagents</p>
Synonyms	RAB5
Specificity	<p>Mouse anti RAB5A antibody 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 (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).</p>
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: https://www.bio-rad-antibodies.com/SDS/VMA00902 10040
Regulatory	For research purposes only

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