

Datasheet: VMA00959

BATCH NUMBER 100005798

Description:	MOUSE ANTI RAB1A
Specificity:	RAB1A
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	EF02/1D7
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	▪			1/2000

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	Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen *E. coli*-derived recombinant protein of amino acids 1-205 of human RAB1A

External Database Links

UniProt:
[P62820](#) [Related reagents](#)

Entrez Gene:
[5861](#) RAB1A [Related reagents](#)

Synonyms RAB1

Fusion Partners Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line

Specificity **Mouse anti RAB1A antibody** recognizes ras-related protein Rab-1A, also known as YPT1-related protein. RAB1A is a member of the RAB family of GTPases, and regulates traffic of vesicles from the endoplasmic reticulum to the Golgi apparatus. RAB1A also functions in mediation of signal transduction, cell migration, and autophagy regulation ([Cheng et al. 2019](#)). RAB1A plays an oncogenic role in many human cancers including breast cancer, lung cancer, hepatocellular carcinoma ([Wang et al. 2018](#)) and colorectal cancer ([Thomas et al. 2014](#)). Importantly for various cancer types, RAB1A is involved with regulating the PI3K-AKT-mTORC1 pathway through the mTORC1 complex ([Xu et al. 2017](#)).

Western Blotting Mouse anti RAB1A detects a band of approximately 23 kDa in MCF-7 cell lysates

Storage Store undiluted at -20°C, avoiding repeated freeze thaw cycles

Guarantee 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/VMA00959>
Antibody (10040)

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

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 13 Aug 2023

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