

Datasheet: VMA00642

Description:	MOUSE ANTI RAD50
Specificity:	RAD50
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	AB01/1A7
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. 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
Product Form	Purified IgG - liquid
Preparation	Mouse monoclonal antibody purified by affinity chromatography on Protein G from tissue culture supernatant.
Buffer Solution	Phosphate buffered saline.
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃).
Immunogen	<i>E. coli</i> -derived recombinant human RAD50 (aa 518-881)
External Database Links	UniProt: Q92878 Related reagents

Entrez Gene:

[10111](#) RAD50 [Related reagents](#)

Specificity **Mouse anti Human RAD50 antibody** recognizes the DNA repair protein RAD50.

The protein encoded by RAD50 is similar to *Saccharomyces cerevisiae*. Rad50, a protein involved in DNA double-strand break repair. RAD50 forms a complex with MRE11 and NBS1. The protein complex binds to DNA and displays numerous enzymatic activities required for non-homologous joining of DNA ends. This protein, cooperating with its partners, is important for DNA double-strand break repair, cell cycle checkpoint activation, telomere maintenance, and meiotic recombination. Knockout of the mouse homolog suggest RAD50 is essential for cell growth and viability. Mutations in RAD50 are the cause of Nijmegen breakage syndrome-like disorder ([NBSLD](#)).

Mouse anti Human RAD50 antibody detects a band of 155 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

Western Blotting Mouse anti RAD50 antibody detects a band of approximately 155 kDa in K562 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: Antibody (10040): <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only.

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

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

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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://www.bio-rad-antibodies.com/datasheets)

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