

Datasheet: AHP1294

Description:	RABBIT ANTI YEAST RAD9
Specificity:	RAD9
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1/2000 - 1/4000
Immunoprecipitation			▪	
Western Blotting	▪			1/50 - 1/250
Functional Assays			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Yeast
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to yeast Rad9 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 0.5mg/ml

Immunogen Synthetic peptide corresponding to aa 1125-1139 of yeast Rad9 protein conjugated to Keyhole Limpet Haemocyanin (KLH).

External Database Links

UniProt:
[P14737](#) [Related reagents](#)

RRID AB_906114

Specificity

Rabbit anti yeast Rad9 antibody detects *Saccharomyces cerevisiae* Rad9, a protein involved in the DNA damage checkpoint. In *S. cerevisiae* this checkpoint is mainly controlled by the PI(3) kinase-like kinase (PIKK) Mec1, which is activated in response to DNA damage. Activated Mec1 hyperphosphorylates Rad9, which in turn triggers the binding of Rad53, the orthologue of mammalian Chk2. Activated Rad53 specifically targets substrates required for cell cycle arrest, gene expression and efficient DNA repair. Mutations affecting Rad9 impair checkpoint induced cell-cycle arrest and increase genomic instability.

Rabbit anti yeast Rad9 antibody (**AHP1294**) is reactive with both the phosphorylated and non-phosphorylated forms of this protein.

Western Blotting AHP1294 detects a band of approximately 60kDa.

Further Reading

1. Toh, G.W. & Lowndes, N.F. (2003) Role of the *Saccharomyces cerevisiae* Rad9 protein in sensing and responding to DNA damage. [Biochem Soc Trans. 31 \(Pt 1\): 242-6.](#)
 2. Sweeney, F.D. *et al.* (2005) *Saccharomyces cerevisiae* Rad9 acts as a Mec1 adaptor to allow Rad53 activation. [Curr Biol. 15 \(15\): 1364-75.](#)
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Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

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 Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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

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