

Datasheet: AHP1425

Description:	RABBIT ANTI HUMAN RAD52
Specificity:	RAD52
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 (1)	▪			2.5ug/ml
ELISA	▪			1/5000 - 1/20000
Immunoprecipitation			▪	
Western Blotting	▪			1/500 - 1/2000
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.

(1)This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Product Form	Purified IgG - liquid
Antiserum Preparation	Antiserum to human RAD52 was raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Sodium Azide (NaN ₃)

Immunogen Synthetic peptide corresponding to amino acids 360 - 375 of the Human RAD52 protein.

External Database

Links

UniProt:

[P43351](#) [Related reagents](#)

Entrez Gene:

[5893](#) RAD52 [Related reagents](#)

RRID

AB_2177556

Specificity

Rabbit anti Human RAD52 antibody recognises Human Rad52, a protein which functions in DNA repair through the homologous recombination of DNA double strand breaks (DSBs). DSBs can be generated through exposure to ionizing radiation or by endogenous cellular reactions, and Rad52 acts during the latter stages of recombination after the DSBs are processed into single stranded DNA (ssDNA).

Rad52 functions together with Rad51 and RPA (Replication Protein A), where it has two distinct activities. First, Rad52 and RPA form a co-complex on ssDNA, where Rad52 functions to recruit Rad51. In addition, Rad52 has ssDNA binding and annealing activities, particularly ssDNA saturated with RPA.

Rad52 is present at low levels during the G1 phase of the cell cycle, when recombinatorial repair is absent. The level rises steadily through S phase reaching a maximum in G2 phase when homologous repair is also at its highest level.

Histology Positive Control Tissue

Human prostate

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

18 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](#)

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

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...)

[RPE](#)

Sheep Anti Rabbit IgG (STAR36...)

[DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[100x ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

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

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