

Datasheet: AHP2676

**BATCH NUMBER 141633**

<b>Description:</b>	RABBIT ANTI RETINOBLASTOMA (pSer780)
<b>Specificity:</b>	RETINOBLASTOMA (pSer780)
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	50 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/500 - 1/2000

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

Human

### Species Cross Reactivity

Reacts with: Mouse

**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

### Antiserum Preparation

Antiserum to retinoblastoma (pSer780) was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.02% Sodium Azide  
50% Glycerol

**Immunogen** Phospho specific-peptide corresponding to residues surrounding serine 780 of human retinoblastoma

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**External Database Links**

**UniProt:**  
[P06400](#)    [Related reagents](#)

**Entrez Gene:**  
[5925](#)    RB1    [Related reagents](#)

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**Specificity**

**Rabbit anti retinoblastoma (pSer780) antibody** recognizes retinoblastoma gene protein, also known as retinoblastoma-associated protein, p105-Rb, pp110 and Rb, when phosphorylated at serine 780. Retinoblastoma-associated protein is a tumor suppressor protein that plays a key role in G<sub>1</sub> checkpoint control. In quiescent cells retinoblastoma-associated protein forms a repressor complex by binding to E2F transcription factors. Phosphorylation of retinoblastoma-associated protein results in dissociation from E2F, allowing for cell cycle progression.

Retinoblastoma-associated protein is phosphorylated at serine 780 by cyclin-D-cdk4/6 complexes, p38 MAPK kinase and aurora b kinase ([Macdonald and Dick 2012](#)).

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**Further Reading**

1. Macdonald, J.I. & Dick, F.A. (2012) Posttranslational modifications of the retinoblastoma tumor suppressor protein as determinants of function. [Genes Cancer. 3 \(11-12\): 619-33.](#)

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**Storage**

Store at -20°C  
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.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #10049 available at:  
<https://www.bio-rad-antibodies.com/SDS/AHP2676>  
10049

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)    [FITC](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Sheep Anti Rabbit IgG (STAR35...)    [RPE](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

### Recommended Useful Reagents

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

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batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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