

## Datasheet: AHP2675

<b>Description:</b>	RABBIT ANTI RelB (pSer573)
<b>Specificity:</b>	RelB (pSer573)
<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
Immunohistology - Paraffin	▪			1/50 - 1/100
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

Based on sequence similarity, is expected to react 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 RelB (pSer573) 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 573 of human

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**External Database****Links****UniProt:**[Q01201](#)[Related reagents](#)**Entrez Gene:**[5971](#)

RELB

[Related reagents](#)

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**Specificity**

**Rabbit anti RelB (pSer573) antibody** recognizes the transcription factor RelB, also known as I-Rel, when phosphorylated at serine 573. RelB is encoded by the v-rel avian reticuloendotheliosis viral oncogene homolog B gene and is a critical component of the NF-kappa-B pathway.

Upon cleavage of the NF-kappa-B p105 and p100 subunits into the NF-kappa-B p50 and p52 subunits, RelB forms RelB-p50 and RelB-p52 heterodimers. These dimers act as activators of transcription by binding to kappaB sites present on DNA ([Oeckinghaus and Ghosh 2009](#)). RelB-p50 and RelB-p52 binding induces the expression of genes mediating immune responses, inflammation and apoptosis ([Jing and Lee 2014](#)).

NF-kappa-B pathway has been implicated in a variety of disease states including autoimmunity and cancer. As the NF-kappa-B pathway has been demonstrated to be constitutively active in a large group of tumors and therefore developing NF-kappa-B inhibitors has emerged as a new cancer therapy approach ([Chaturverdi et al. 2011](#), [Baud and Karin et al. 2009](#)). RelB is phosphorylated at serine 573 leading to degradation ([Marienfeld et al. 2001](#))

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**Further Reading**

1. Oeckinghaus, A. & Ghosh, S. (2009) The NF-kappaB family of transcription factors and its regulation. [Cold Spring Harb Perspect Biol. 1 \(4\): a000034.](#)
2. Jing, H. & Lee, S. (2014) NF-κB in cellular senescence and cancer treatment. [Mol Cells. 37 \(3\): 189-95.](#)
3. Chaturverdi, M.M. et al. (2011) NF-κB addiction and its role in cancer: 'one size does not fit all'. [Oncogene. 30 \(14\): 1615-30.](#)
4. Baud, V. & Karin, M. (2009) Is NF-kappaB a good target for cancer therapy? Hopes and pitfalls. [Nat Rev Drug Discov. 8 \(1\): 33-40.](#)
5. Marienfeld, R. et al. (2001) Signal-specific and phosphorylation-dependent RelB degradation: a potential mechanism of NF-kappaB control. [Oncogene. 20 \(56\): 8142-7.](#)

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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:  
10049: <https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf>

## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

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

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [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](mailto:antibody_sales_us@bio-rad.com)

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Tel: +44 (0)1865 852 700

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

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