

## Datasheet: AHP1342

|                      |                                |
|----------------------|--------------------------------|
| <b>Description:</b>  | RABBIT ANTI NFkB p65 (pSer536) |
| <b>Specificity:</b>  | NFkB p65 (pSer536)             |
| <b>Format:</b>       | Purified                       |
| <b>Product Type:</b> | Polyclonal Antibody            |
| <b>Isotype:</b>      | Polyclonal IgG                 |
| <b>Quantity:</b>     | 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](http://www.bio-rad-antibodies.com/protocols).

|                            | Yes | No | Not Determined | Suggested Dilution |
|----------------------------|-----|----|----------------|--------------------|
| Flow Cytometry             |     |    | ▪              |                    |
| Immunohistology - Frozen   |     |    | ▪              |                    |
| Immunohistology - Paraffin | ▪   |    |                | 1/50 - 1/250       |
| ELISA                      | ▪   |    |                | 1/500 - 1/3000     |
| Immunoprecipitation        |     |    | ▪              |                    |
| Western Blotting           | ▪   |    |                | 1/100 - 1/1000     |

Where this antibody 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 antibody 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: Rat, 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

Antisera to NFkB p65 (pSer536) were 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

|  |  |
|--|--|
| <b>Preservative Stabilisers</b>          | <0.1% Sodium Azide (NaN <sub>3</sub> )   |
| <b>Approx. Protein Concentrations</b>    | IgG concentration 0.5mg/ml   |
| <b>Immunogen</b>                         | Synthetic peptide corresponding to residues surrounding phosphoserine 536 of human NFkB p65 protein.   |
| <b>External Database Links</b>           | <p><b>UniProt:</b><br/> <a href="#">Q04206</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">5970</a>    RELA    <a href="#">Related reagents</a></p>  |
| <b>Synonyms</b>                          | NFKB3  |
| <b>RRID</b>                              | AB_906096  |
| <b>Specificity</b>                       | <p><b>Rabbit anti NFkB p65 (pSer536) antibody</b> recognizes nuclear factor NF-kappa-B p65 subunit (NFkB p65), also known as nuclear factor of kappa light polypeptide gene enhancer in B-cells 3 and transcription factor p65, when phosphorylated at serine 536. NFkB is a heterodimeric DNA binding protein which was originally identified consisting of p65 and p50 (NFkB1) subunits. Other subunits, including p52 (NFkB2), cRel, and RelB exist.</p> <p>NFkB is ubiquitously expressed, and functions as a second messenger which upon activation leads to the transcription of a number of genes. NFkB is activated by a number of agents, including pro-inflammatory cytokines and bacterial lipopolysaccharide, and is essential for the maturation of T cells and regulation of their survival and activation.</p> <p>Phosphorylation of serine 536 contributes to NFkB transactivation and increases p65 transcription activity.</p> |
| <b>Histology Positive Control Tissue</b> | Human kidney distal tubules and collecting ducts.  |
| <b>Western Blotting</b>                  | AHP1342 detects a band of approximately 65kDa in the appropriate cell lysate.  |
| <b>References</b>                        | <ol style="list-style-type: none"> <li>1. Doukas, P.G. <i>et al.</i> (2019) Temporal characteristics of NF-κB inhibition in blocking bile-induced oncogenic molecular events in hypopharyngeal cells. <a href="#">Oncotarget. 10 (36): 3339-51.</a></li> <li>2. Doukas, S.G. <i>et al.</i> (2020) The <i>in vivo</i>. preventive and therapeutic properties of curcumin in bile reflux-related oncogenesis of the hypopharynx. <a href="#">J Cell Mol Med. 24 (18): 10311-21.</a></li> <li>3. Vageli, D.P. <i>et al.</i> (2021) Targeting STAT3 prevents bile reflux-induced oncogenic molecular events linked to hypopharyngeal carcinogenesis. <a href="#">J Cell Mol Med. Dec 01 [Epub ahead of print].</a></li> </ol>  |

4. ElSayed, M.H. *et al.* (2023) Betanin improves motor function and alleviates experimental Parkinsonism via downregulation of TLR4/MyD88/NF-κB pathway: Molecular docking and biological investigations. [Biomed Pharmacother. 164: 114917.](#)
5. Doukas, P.G. *et al.* (2021) Pepsin Promotes Activation of Epidermal Growth Factor Receptor and Downstream Oncogenic Pathways, at Slightly Acidic and Neutral pH, in Exposed Hypopharyngeal Cells. [Int J Mol Sci. 22 \(8\): 4275.](#)

|                                      |   |
|--------------------------------------|---|
| <b>Further Reading</b>               | 1. Mattioli, I. <i>et al.</i> (2004) Transient and selective NF-kappa B p65 serine 536 phosphorylation induced by T cell costimulation is mediated by I kappa B kinase beta and controls the kinetics of p65 nuclear import. <a href="#">J Immunol. 172 (10): 6336-44.</a>  |
| <b>Storage</b>                       | <p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p> |
| <b>Guarantee</b>                     | 12 months from date of despatch   |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP1342">https://www.bio-rad-antibodies.com/SDS/AHP1342</a><br>10040   |
| <b>Regulatory</b>                    | For research purposes only  |

## Related Products

### Recommended Secondary Antibodies

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

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

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

### Recommended Useful Reagents

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

|                                  |   |                  |   |               |   |
|----------------------------------|---|------------------|---|---------------|---|
| <b>North &amp; South America</b> | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a> | <b>Worldwide</b> | Tel: +44 (0)1865 852 700<br>Fax: +44 (0)1865 852 739<br>Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a> | <b>Europe</b> | Tel: +49 (0) 89 8090 95 21<br>Fax: +49 (0) 89 8090 95 50<br>Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a> |
|----------------------------------|---|------------------|---|---------------|---|

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)  
'M389140:210806'

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