

## Datasheet: AHP2550

<b>Description:</b>	RABBIT ANTI ATF2 (pSer44/pSer62)
<b>Specificity:</b>	ATF2 (pSer44/pSer62)
<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, Rat

**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 ATF2 (pSer44/pSer62) 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

<b>Immunogen</b>	Phospho specific-peptide corresponding to residues surrounding serine 44 /serine 62 of human ATF2
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P15336</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">1386</a>    ATF2    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	CREB2, CREBP1
<b>Specificity</b>	<p><b>Rabbit anti ATF2 (pSer44/pSer62) antibody</b> recognizes activating transcription factor 2 (ATF2), also known as cyclic AMP-dependent transcription factor ATF-2 and cyclic AMP-responsive element-binding protein 2 (CREB-2), when phosphorylated at serine 44 or serine 62. ATF2 is a member of the ATF family of transcription factors containing single bZIP and C2H2-type zinc finger domains. ATF2 plays a role in the regulation of genes involved in cell differentiation, growth and the response to stress and DNA damage.</p> <p>ATF2 binds to the cAMP responsive element (CRE), stimulating CRE- dependent transcription (<a href="#">Shuman et al. 1997</a>). ATF2 also functions as a histone acetyltransferase (HAT), specifically acetylating histones 2B and 4 <i>in vitro</i> (<a href="#">Kawasaki et al. 2000</a>).</p> <p>ATF2 is phosphorylated on serine 62 by vaccinia-related kinase-1 (VRK1), activating the trascriptional activity of ATF2 (<a href="#">Sevilla et al. 2004</a>).</p>
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>1. Shuman, J.D. <i>et al.</i> (1997) ATF-2 and C/EBPalpha can form a heterodimeric DNA binding complex in vitro. Functional implications for transcriptional regulation. <a href="#">J Biol Chem. 272 (19): 12793-800.</a></li> <li>2. Kawasaki, H. <i>et al.</i> (2000) ATF-2 has intrinsic histone acetyltransferase activity which is modulated by phosphorylation. <a href="#">Nature. 405 (6783): 195-200.</a></li> <li>3. Sevilla. A, <i>et al.</i> (2004) Human vaccinia-related kinase 1 (VRK1) activates the ATF2 transcriptional activity by novel phosphorylation on Thr-73 and Ser-62 and cooperates with JNK. <a href="#">J Biol Chem. 279 (26): 27458-65.</a></li> </ol>
<b>Storage</b>	<p>Store at -20°C</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10049 available at: 10049: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf</a>
<b>Regulatory</b>	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

[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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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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