

## Datasheet: AHP2272

<b>Description:</b>	RABBIT ANTI ATF2 (pThr52)
<b>Specificity:</b>	ATF2 (pThr52)
<b>Other names:</b>	HB16
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 ml

## 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	▪			1/250

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: Bovine, Chicken, Mouse, Primate, Rat, Xenopus

**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 (pThr52) was raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG was prepared by affinity purification via sequential chromatography on phospho- and dephospho-peptide affinity columns

### Buffer Solution

HEPES buffered saline

### Preservative

0.09% Sodium Azide (NaN<sub>3</sub>)

<b>Stabilisers</b>	1% Bovine Serum Albumin 50% Glycerol
<b>Immunogen</b>	Phosphopeptide corresponding to amino acid residues surrounding the phospho-Thr52 (pThr52) region 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 (pThr52) 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 threonine 52.</p> <p>The ATF2 gene encodes a transcription factor that is a member of the leucine zipper family of DNA-binding proteins. ATF2 binds to the cAMP-responsive element (CRE), an octameric palindrome. The protein forms a homodimer or heterodimer with c-Jun and stimulates CRE-dependent transcription. There is abnormal activation of ATF-2 in growth and progression of mammalian skin tumors.</p> <p>ATF2 may mediate oncogenesis caused by mutant Ras protein and regulate maintenance of the aggressive cancer phenotype of some types of epithelial cells. ATF2 has also been shown to be phosphorylated by ATM at Serine 490 and 498 in humans. The serine phosphorylated forms play a role in mediating DNA repair and in response to DNA damage induced by ionizing radiation (IR).</p> <p>ATF2 exhibits histone acetyltransferase (HAT) activity and has been reported to specifically acetylate histones H2B and H4 <i>in vitro</i>. In concert with CUL3 and RBX1, ATF2 promotes the degradation of KAT5 thereby attenuating its ability to acetylate and activate ATM. This protein can also elicit oncogenic or tumor suppressor activities depending on the tissue or cell type.</p> <p>In response to stress stimuli, ATF2 activates a variety of gene targets that are involved in oncogenesis, and has been correlated with maintenance of a cancer cell phenotype. Inhibiting ATF2 impedes melanoma development and elicits tumor suppressor function. To act as a tumor suppressor, ATF2 must localize at the mitochondria and phosphorylation at Thr52 by PKCε regulates this translocation.</p>
<b>Western Blotting</b>	Rabbit anti Human ATF2 detects a band of approximately 72 kDa in UACC903 melanoma cell line lysate
<b>Storage</b>	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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10088 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP2272">https://www.bio-rad-antibodies.com/SDS/AHP2272</a> 10088
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<b>Regulatory</b>	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](#)

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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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