

Datasheet: AHP2552

Description:	RABBIT ANTI ATF2 (pThr51/pThr69)
Specificity:	ATF2 (pThr51/pThr69)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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	Reacts with: Mouse Based on sequence similarity, is expected to react with:Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antiserum to ATF2 (pThr51/pThr69) 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	0.02% Sodium Azide
Stabilisers	50% Glycerol
Immunogen	Phospho specific-peptide corresponding to residues surrounding threonine 51/threonine 69 of human ATF2

External Database

Links

UniProt:

[P15336](#) [Related reagents](#)

Entrez Gene:

[1386](#) ATF2 [Related reagents](#)

Synonyms	CREB2, CREBP1
Specificity	<p>Rabbit anti ATF2 (pThr51/pThr69) antibody 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 51 or threonine 69. 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 (Shuman et al. 1997). ATF2 also functions as a histone acetyltransferase (HAT), specifically acetylating histones 2B and 4 <i>in vitro</i> (Kawasaki et al. 2000).</p> <p>ATF2 is phosphorylated at threonine 69 and threonine 71 by JNK1, JNK2 and p38 MAPK, enhancing the transcriptional activity of ATF2 (Yamasaki et al. 2009).</p>
Western Blotting	Due to the presence of phosphoproteins in milk, the use of milk based blocking reagents is not recommended. 1% BSA in PBS or TBS Tween should be used instead.
Further Reading	<ol style="list-style-type: none"> 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. J Biol Chem. 272 (19): 12793-800. 2. Kawasaki, H. <i>et al.</i> (2000) ATF-2 has intrinsic histone acetyltransferase activity which is modulated by phosphorylation. Nature. 405 (6783): 195-200. 3. Yamasaki, T. <i>et al.</i> (2009) Phosphorylation of Activation Transcription Factor-2 at Serine 121 by Protein Kinase C Controls c-Jun-mediated Activation of Transcription. J Biol Chem. 284 (13): 8567-81.
Storage	<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>
Shelf Life	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10049 available at: 10049: https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf
Regulatory	For research purposes only

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
Sheep Anti Rabbit IgG (2AB02...)	Biotin
Sheep Anti Rabbit IgG (STAR36...)	DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800

Recommended Useful Reagents

TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

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