

## Datasheet: AHP2269

<b>Description:</b>	RABBIT ANTI PAK1 (pThr84)
<b>Specificity:</b>	PAK1 (pThr84)
<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	▪			1/1000

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: Bovine, Dog, Chicken, Guinea Pig, Rat, Sheep, Zebrafish, Primate  
**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 PAK1 (pThr84) 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 columns

### Buffer Solution

HEPES buffered saline

### Preservative Stabilisers

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

1% Bovine Serum Albumin  
50% Glycerol

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**Immunogen** Phosphopeptide corresponding to amino acid residues surrounding the phospho-Thr84 (pThr84) region of human PAK1

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**External Database Links**

**UniProt:**

[Q13153](#) [Related reagents](#)

**Entrez Gene:**

[5058](#) PAK1 [Related reagents](#)

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**Specificity**

**Rabbit anti PAK1 (pThr84) antibody** recognizes p21-activated kinases (PAK) 1, also known as serine/threonine-protein kinase PAK 1, alpha-PAK and p65-PAK, when phosphorylated at threonine 84.

Serine/threonine-protein kinase PAK1 is an enzyme that in humans is encoded by the PAK1 gene. PAK proteins are critical effectors that link the Rho GTPases to cytoskeleton reorganization and nuclear signaling. PAK proteins are a family of serine/threonine p21-activated kinases and include PAK1-6. These proteins serve as targets for small GTP binding proteins such as OSR1.

OSR1, oxidative stress response 1, is activated by osmotic stresses including sorbitol or NaCl. It has been predicted that OSR1 phosphorylates PAK1 in the regulatory domain at threonine 84 and inhibits activation of the JNK and MAPK signaling pathway.

PAK proteins also serve as targets for the small GTP binding proteins Cdc42 and Rac and have been implicated in a wide range of biological activities. PAK1 regulates cell motility and morphology.

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**Western Blotting**

Rabbit anti Human PAK1 (pThr84) detects a band at approximately 68 kDa in mouse hippocampal lysate

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**Storage**

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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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #10088 available at:  
<https://www.bio-rad-antibodies.com/SDS/AHP2269>  
10088

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
- Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
- Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
- Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)
- Goat Anti Rabbit IgG (H/L) (STAR124...) [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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