

Datasheet: AHP2269

Description:	RABBIT ANTI PAK1 (pThr84)
Specificity:	PAK1 (pThr84)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting (1)	■			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.

(1) For the detection of phosphoproteins, phosphatase inhibitors should always be added freshly to the lysis buffer. Milk or other casein-based blocking solutions are generally not recommended for blocking; as casein is itself a phosphoprotein its use can result in high background.

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.
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 (NaN₃) 1% Bovine Serum Albumin 50% Glycerol
Immunogen	Phosphopeptide corresponding to amino acid residues surrounding the phospho-Thr84 (pThr84) region of human PAK1

**External Database
Links**

UniProt:

[Q13153](#)

[Related reagents](#)

Entrez Gene:

[5058](#)

PAK1

[Related reagents](#)

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.

Western Blotting

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

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

12 months from date of despatch

**Health And Safety
Information**

Material Safety Datasheet documentation #10088 available at:
10088: <https://www.bio-rad-antibodies.com/uploads/MSDS/10088.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](#)

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