

Datasheet: VPA00083

Description:	RABBIT ANTI PAK2
Specificity:	PAK2
Other names:	p21 Activated Kinase 2
Format:	Purified
Product Type:	PrecisionAb™ Polyclonal
Isotype:	Polyclonal IgG
Quantity:	100 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
Western Blotting	■			1/1000

PrecisionAb antibodies have been extensively [validated for the western blot application](#). The antibody has been validated at the suggested dilution. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependant on sample type.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Rabbit polyclonal antibody purified by affinity chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Immunogen	14 amino acid peptide sequence near the carboxy terminus of human PAK2.

External Database Links

UniProt:

[Q13177](#) [Related reagents](#)

Entrez Gene:

[5062](#) PAK2 [Related reagents](#)

Specificity

Rabbit anti Human PAK2 antibody recognizes p21-activated kinase-2 (PAK2), a ubiquitously expressed, serine/threonine protease found at higher levels in skeletal muscle, ovary, thymus and spleen.

p21-activated kinases (PAKs) bind activated Cdc42 and Rac via a Cdc42/Rac interactive binding (CRIB) domain. Group 1 PAK kinases (PAK1, 2 and 3) regulate the activity of an adjacent conserved autoinhibitory domain and are associated with cellular processes, including cytoskeleton rearrangement, apoptosis and MAP kinase signalling. Group 2 PAKs (PAK4, 5, and 6) lack the autoinhibitory domain and are not activated by Cdc42/Rac binding.

PAK2 has a cytostatic effect on cells and is activated in response to cellular stresses such as hyperosmolarity, serum starvation, contact inhibition and DNA damage from radiation and chemicals. Unlike other PAKs, PAK2 can be activated by proteolytic cleavage to generate a constitutively active fragment, PAK2p34, which induces a cell death response. This induction is thought to be regulated by Rho GTPase-activating protein 10 which inhibits the protein kinase activity of PAK2p34 and causes it to localise to the perinuclear region instead of the nucleus. PAK2 may also play a role in X-linked mental retardation.

Rabbit anti Human PAK2 antibody detects p21-activated kinase-2 as a single band of 58 kDa in a range of human cell line lysates.

Western Blotting	Rabbit anti PAK2 detects a band of approximately 58 kDa in MCF7 cell lysates.
Instructions For Use	Please refer to the PrecisionAb western blotting protocol . For additional information on secondary antibody dilution and exposure time see product web page.
Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
Shelf Life	As supplied, 12 months from date of despatch.
Acknowledgements	PrecisionAb™ is a trademark of Bio-Rad Laboratories.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR208...) [HRP](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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