

Datasheet: AHP1237

Description:	RABBIT ANTI RAF-1 (pSer642)
Specificity:	RAF-1 (pSer642)
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
Flow Cytometry			■	
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation			■	
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, tyrosine phosphatase inhibitors such as 1mM Sodium Orthovanadate should be added to the sample buffer. Milk or other casein-based blocking solutions are not recommended as casein is a phosphoprotein and its use can result in high background.

Target Species	Rat
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Species Cross Reactivity	Based on sequence similarity, is expected to react with: Human, Bovine, Chicken, Mouse, Dog, Primate N.B. Antibody reactivity and working conditions may vary between species.
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Product Form	Purified IgG - liquid
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Antiserum Preparation	Antisera to rat Raf-1 (pSer 642) were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared affinity chromatography.
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Buffer Solution	10mM Hepes pH7.5 150mM NaCl
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Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 0.01% Bovine Serum Albumin
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50% Glycerol

Immunogen Phosphopeptide corresponding to amino acid sequence surrounding phosphorylated Ser 642 of rat Raf-1.

External Database

Links

UniProt:

[P11345](#) [Related reagents](#)

Entrez Gene:

[24703](#) Raf1 [Related reagents](#)

Synonyms

Raf

Specificity

Rabbit anti Rat Raf-1 (pSer642) antibody recognizes Raf-1, also known as RAF proto-oncogene serine/threonine-protein kinase and proto-oncogene c-RAF (cRaf), when phosphorylated at serine 642. Raf-1 is a ubiquitously expressed ~74 kDa member of the serine/threonine protein kinase family. Raf-1 is a MAP kinase kinase kinase and participates in the transduction of mitogenic signals from receptors on the cell membrane to the nucleus. Raf-1 is activated through phosphorylation by Ras and in turn phosphorylates MEK which activates ERK. ERK when activated regulates the expression of genes involved in cell cycle, differentiation, migration and apoptosis. As such Raf-1 is an important clinical target in cancer.

Raf-1 activity can be downregulated by phosphorylation at serine residues 301 and 642.

Western Blotting

AHP1237 detects a band of approximately 74kDa.

References

1. Gollob, J.A. *et al.* (2006) Role of Raf kinase in cancer: therapeutic potential of targeting the Raf/MEK/ERK signal transduction pathway. [Semin Oncol. 33 \(4\): 392-406.](#)
 2. Dougherty, M.K. *et al.* (2005) Regulation of Raf-1 by direct feedback phosphorylation. [Mol Cell. 17 \(2\): 215-24.](#)
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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. Avoid repeated freezing and thawing as this may denature the antibody. 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 available at:
Material Safety Datasheet Documentation #10088 available at:
<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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