

## Datasheet: AHP1237

|                      |                             |
|----------------------|-----------------------------|
| <b>Description:</b>  | RABBIT ANTI RAF-1 (pSer642) |
| <b>Specificity:</b>  | RAF-1 (pSer642)             |
| <b>Format:</b>       | Purified                    |
| <b>Product Type:</b> | Polyclonal Antibody         |
| <b>Isotype:</b>      | Polyclonal IgG              |
| <b>Quantity:</b>     | 0.1 ml                      |

## Product Details

**RRID** AB\_2228240

**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 |
|----------------------------|-----|----|----------------|--------------------|
| Flow Cytometry             |     |    | ▪              |                    |
| Immunohistology - Frozen   |     |    | ▪              |                    |
| Immunohistology - Paraffin |     |    | ▪              |                    |
| ELISA                      |     |    | ▪              |                    |
| Immunoprecipitation        |     |    | ▪              |                    |
| 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** Rat

**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.

**Product Form** Purified IgG - liquid

**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.

**Buffer Solution** 10mM HEPES pH7.5  
150mM NaCl

**Preservative Stabilisers** 0.09% Sodium Azide (NaN<sub>3</sub>)  
0.01% Bovine Serum Albumin  
50% Glycerol

|                                      |   |
|--------------------------------------|---|
| <b>Immunogen</b>                     | Phosphopeptide corresponding to amino acid sequence surrounding phosphorylated Ser 642 of rat Raf-1.  |
| <b>External Database Links</b>       | <p><b>UniProt:</b><br/> <a href="#">P11345</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">24703</a>    Raf1    <a href="#">Related reagents</a></p>  |
| <b>Synonyms</b>                      | Raf   |
| <b>Specificity</b>                   | <p><b>Rabbit anti Rat Raf-1 (pSer642) antibody</b> 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.</p> <p>Raf-1 activity can be downregulated by phosphorylation at serine residues 301 and 642.</p> |
| <b>Western Blotting</b>              | AHP1237 detects a band of approximately 74kDa.  |
| <b>References</b>                    | <ol style="list-style-type: none"> <li>1. Gollob, J.A. <i>et al.</i> (2006) Role of Raf kinase in cancer: therapeutic potential of targeting the Raf/MEK/ERK signal transduction pathway. <a href="#">Semin Oncol. 33 (4): 392-406.</a></li> <li>2. Dougherty, M.K. <i>et al.</i> (2005) Regulation of Raf-1 by direct feedback phosphorylation. <a href="#">Mol Cell. 17 (2): 215-24.</a></li> </ol>   |
| <b>Storage</b>                       | <p>Store at +4°C or at -20°C if preferred.</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>  |
| <b>Guarantee</b>                     | 12 months from date of despatch.  |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10088 available at: 10088: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10088.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10088.pdf</a>   |
| <b>Regulatory</b>                    | For research purposes only  |

## Related Products

### Recommended Secondary Antibodies

|   |   |
|---|---|
| Sheep Anti Rabbit IgG (STAR34...)       | <a href="#">FITC</a>  |
| Goat Anti Rabbit IgG (H/L) (STAR124...) | <a href="#">HRP</a>   |
| Goat Anti Rabbit IgG (Fc) (STAR121...)  | <a href="#">Biotin</a> , <a href="#">FITC</a> , <a href="#">HRP</a> |
| Sheep Anti Rabbit IgG (STAR35...)       | <a href="#">RPE</a>   |
| Sheep Anti Rabbit IgG (2AB02...)        | <a href="#">Biotin</a>  |

Sheep Anti Rabbit IgG (STAR36...)

[DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

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