

Datasheet: VMA00124

**BATCH NUMBER 170980**

<b>Description:</b>	MOUSE ANTI RAF-1
<b>Specificity:</b>	RAF-1
<b>Other names:</b>	Proto-oncogene c-RAF
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	4G4
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/1000

**The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range.** 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 dependent on sample type.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse, Rat

**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

### Preparation

Purified IgG prepared by affinity chromatography on Protein G from ascites

### Buffer Solution

Phosphate buffered saline

<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5 mg/ml
<b>Immunogen</b>	Purified recombinant fragment of human RAF-1 expressed in <i>E. coli</i>
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P04049</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">5894</a>    RAF1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	RAF
<b>Specificity</b>	<p><b>Mouse anti Human RAF-1 antibody, clone 4G4</b> recognizes RAF-1, also known as C-Raf proto-oncogene, serine/threonine kinase, Oncogene RAF1, RAF proto-oncogene serine/threonine-protein kinase, proto-oncogene c-RAF, raf proto-oncogene serine/threonine protein kinase or v-raf-1 murine leukemia viral oncogene homolog 1.</p> <p>RAF-1 is the cellular homolog of viral raf gene (v-raf). The encoded protein is a MAP kinase kinase kinase (MAP3K), which functions downstream of the Ras family of membrane associated GTPases to which it binds directly. Once activated, the cellular RAF-1 protein can phosphorylate to activate the dual specificity protein kinases MEK1 and MEK2, which in turn phosphorylate to activate the serine/threonine specific protein kinases, ERK1 and ERK2. Activated ERKs are pleiotropic effectors of cell physiology and play an important role in the control of gene expression involved in the cell division cycle, apoptosis, cell differentiation and cell migration. Mutations in RAF-1 are associated with Noonan syndrome 5 and LEOPARD syndrome 2 (provided by RefSeq, Jul 2008).</p> <p>Mouse anti Human RAF-1 antibody detects a band of 73 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.</p>
<b>Western Blotting</b>	Anti RAF-1 detects a band of approximately 73 kDa in HEK293 cell lysates.
<b>Further Reading</b>	1. Morrison, D.K. & Cutler, R.E. (1997) The complexity of Raf-1 regulation. <a href="#">Curr Opin Cell Biol. 9(2):174-9</a>
<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/VMA00124">https://www.bio-rad-antibodies.com/SDS/VMA00124</a>

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)  
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