

## Recombinant Human RAF1 cell lysate

Cat. No. RAF1-1463HCL Lot. No. (See product label)

### SPECIFICATION

**Species**

Human

**Description**

This gene 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 RAF1 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 this gene are associated with Noonan syndrome 5 and LEOPARD syndrome 2.

**Size**

100 ul

**Storage Buffer**

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

**Applications**

Western Blot;

### GENE INFORMATION

**Gene Name**

RAF1 v-raf-1 murine leukemia viral oncogene homolog 1 [ Homo sapiens ]

**Official Symbol**

RAF1

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<b>Synonyms</b>	RAF1; v-raf-1 murine leukemia viral oncogene homolog 1; RAF proto-oncogene serine/threonine-protein kinase; c Raf; CRAF; Raf 1; Oncogene RAF1; proto-oncogene c-RAF; raf proto-oncogene serine/threonine protein kinase; NS5; Raf-1; c-Raf;
<b>Gene ID</b>	<a href="#">5894</a>
<b>mRNA Refseq</b>	<a href="#">NM_002880</a>
<b>Protein Refseq</b>	<a href="#">NP_002871</a>
<b>MIM</b>	<a href="#">164760</a>
<b>UniProt ID</b>	<a href="#">P04049</a>
<b>Chromosome Location</b>	3p25
<b>Pathway</b>	ARMS-mediated activation, organism-specific biosystem; Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Adaptive Immune System, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Axon guidance, organism-specific biosystem;
<b>Function</b>	ATP binding; MAP kinase kinase kinase activity; Ras GTPase binding; metal ion binding; mitogen-activated protein kinase kinase binding; nucleotide binding; protein binding; protein heterodimerization activity; protein kinase activity; protein serine/threonine kinase activity; receptor signaling protein activity;

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