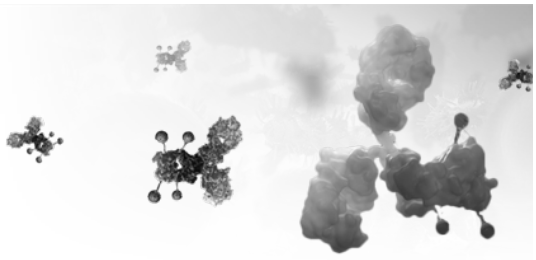

RAF1 blocking peptide (DAG-P1917)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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. [provided by RefSeq, Jul 2008]
Specificity	In skeletal muscle, isoform 1 is more abundant than isoform 2.
Purity	> 90 % by SDS-PAGE.
Conjugate	Unconjugated
Applications	BL
Sequence Similarities	Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. RAF subfamily.Contains 1 phorbol-ester/DAG-type zinc finger.Contains 1 protein kinase domain.Contains 1 RBD (Ras-binding) domain.
Format	Liquid
Buffer	Preservative: 0.02% Thimerosal (merthiolate) Constituents: 0.1% BSA, PBS, pH 7.2
Preservative	0.02% Thimerosal
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Preservative: 0.02% Thimerosal (merthiolate) Constituents: 0.1% BSA, PBS, pH 7.2

GENE INFORMATION

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Gene Name	RAF1 v-raf-1 murine leukemia viral oncogene homolog 1 [Homo sapiens (human)]
Official Symbol	RAF1
Synonyms	RAF1; v-raf-1 murine leukemia viral oncogene homolog 1; NS5; CRAF; Raf-1; c-Raf; RAF proto-oncogene serine/threonine-protein kinase; Oncogene RAF1; proto-oncogene c-RAF; raf proto-oncogene serine/threonine protein kinase;
Entrez Gene ID	5894
mRNA Refseq	NM_002880.3
Protein Refseq	NP_002871.1
UniProt ID	L7RRS6
Chromosome Location	3p25
Pathway	AGE/RAGE pathway, organism-specific biosystem; 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; Alcoholism, organism-specific biosystem; Alcoholism, conserved biosystem; Axon guidance, organism-specific biosystem; B Cell Receptor Signalin
Function	ATP binding; MAP kinase kinase kinase activity; identical protein binding; metal ion binding; mitogen-activated protein kinase kinase binding; protein binding; protein heterodimerization activity; protein kinase activity; protein serine/threonine kinase a

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