

Recombinant Full Length Human RAF1 Protein, GST-tagged

Cat. No. RAF1-424HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human RAF1(1 a.a. - 648 a.a.), fused with GST-tag at N-terminal, was expressed in Wheat Germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	648 amino acids
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.
Molecular Mass	99.5 kDa
AA Sequence	MEHIQGAWKT ISNGFGFKDA VFDGSSCISP TIVQQFGYQR RASDDGKLTD PSKTSNTIRV FLPNKQRTVV NVRNGMSLHD CLMKALKVRG LQPECCA VFR LLHEHKGKKA RLDWNTDAAS LIGEELQVDF LDHVPLTTHN FARKTFLKLA FCDICQKFLN NGFRCQTCGY KFHEHCSTKV PTMCVDWSNI RQLLLFPNST

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IGDSGVPALP SLTMRRMRES VSRMPVSSQH RYSTPHAFTF NTSSPSSEGS
 LSQRQRSTST PNVHVMSTTL PVDSRMIEDA IRSHSESASP SALSSSPNNL
 SPTGWSQPKT PVPAQRERAP VSGTQEKNKI RPRGQRDSSY YWEIEASEVM
 LSTRIGSGSF GTVYKKGKWHG DVAVKILKVV DPTPEQFQAF RNEVAVLRKT
 RHVNILLFMG YMTKDNLAIV TQWCEGSSLY KHLHVQETKF QMFQLIDIAR
 QTAQGMDYLH AKNIIHRDMK SNNIFLHEGL TVKIGDFGLA TVKSRWSGSQ
 QVEQPTGSVL WMAPEVIRMQ DNNPFSFQSD VYSYGIVLYE LMTGELPYSH
 INNRDQIIFM VGRGYASPD L SKLYKNCPKA MKRLVADCVK KVKEERPLFP
 QILSSIELLQ HSLPKINRSA SEPSLHRAAH TEDINACTLT TSPRLPVF

Applications ELISA; WB-Re; AP; Array

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name [RAF1 Raf-1 proto-oncogene, serine/threonine kinase \[Homo sapiens \(human\) \]](#)

Official Symbol [RAF1](#)

Synonyms RAF1; v-raf-1 murine leukemia viral oncogene homolog 1; NS5; CRAF; Raf-1; c-Raf; Oncogene RAF1; raf proto-oncogene serine/threonine protein kinase; EC 2.7.11.1; C-RAF; cRaf

Gene ID [5894](#)

mRNA Refseq [NM_002880](#)

Protein Refseq [NP_002871](#)

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MIM	164760
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UniProt ID	P04049
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