

Recombinant Human RAF1, GST-tagged

Cat. No. RAF1-553H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RAF1(1 a.a. - 648 a.a.), fused with GST-tag at N-terminal, was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1 a.a. - 648 a.a.
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	MEHIQGAWKTISNGFGFKDAVFDGSSCISPTIVQQFGYQRRASDDGKLTDPKTSNT IRVFLPNKQRTVVNVRNG MSLHDCLMKALKVRGLQPECCAVFRLLEHKGGKKARLD WNTDAASLIGEELQVDFLDHVPLTTHNFARKTFLKLA FCDICQKFLNGFRCQTCGY KFHEHCSTKVPTMCVDWSNIRQLLLFPNSTIGDSGVPALPSLTMRMRRESVSRMP V

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SSQHRYSTPHAFTFNTSSPSSEGSLSQRQRSTSTPNVHVMVSTTLPVDSRMIEDAIRS
HSESASPSALSSSPNNL SPTGWSQPKTPVPAQRERAPVSGTQEKNKIRPRGQRDS
SYYWEIEASEVMLSTRIGSGSFGTVYKGKWHGDVAVK ILKVVDPTPEQFQAFRNEV
AVLRKTRHVNILLFMGYMTKDNLAIVTQWCEGSSLYKHLHVQETKFQMFQLIDIAR Q
TAQGMDYLHAKNIIHRDMKSNNIFLHEGLTVKIGDFGLATVKSRWSGSQQVEQPTGS
VLWMAPEVIRMQDNNPF SFQSDVYSYGIVLYELMTGELPYSHINNRDQIIFMVGRGY
ASPDLSKLYKNCPKAMKRLVADCVKKVKEERPLFP QILSSIELLQHSLPKINRSASEP
SLHRAAHTEDINACTLTTSPLRPVF

Applications ELISA; WB-Re; AP; Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80°C. 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](#)

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Protein Refseq	NP_002871
MIM	164760
UniProt ID	P04049
Chromosome Location	3p25
Pathway	Activation of NMDA receptor upon glutamate binding and postsynaptic events; Acute myeloid leukemia; Axon guidance; B cell receptor signaling pathway
Function	ATP binding; MAP kinase kinase kinase activity; identical protein binding; mitogen-activated protein kinase kinase binding

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