

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 MSLHDCLMKALKVRGLQPECCAVFRLLEHKGGKARLD WNTDAASLIGEELQVDFLDHVPLTTHNFARKTFLKLA FCDICQKFLNGFRCQTCGY KFHEHCSTKVPTMCVDWSNIRQLLLFPNSTIGDSGVPALPSLTMRMRRESVSRMP V

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

SSQHRYSTPHAFTFNTSSPSSEGLSQRQRSTSTPNVHVMVSTTLPVDSRMIEDAIRS
HSESASPSALSSSPNNL SPTGWSQPKTPVPAQRERAPVSGTQEKNKIRPRGQRDS
SYYWEIEASEVMLSTRIGSGSFGTVYKKGKWHGDVAVK ILKVVDPTPEQFQAFRNEV
AVLRKTRHVNILLFMGYMTKDNLAIVTQWCEGSSLYKHLHVQETKFQMFQLIDIAR Q
TAQGMDYLHAKNIIHRDMKSNNIFLHEGLTVKIGDFGLATVKSRWGSQSQVEQPTGS
VLWMAPEVIRMQDNNPF SFQSDVYSYGIVLYELMTGELPYSHINNRDQIIFMVGRGY
ASPDLSKLYKNCPKAMKRLVADCVKKVKEERPLFP QILSSIPELLQHSLPKINRSASEP
SLHRAAHTEDINACTLTTSRPLPVF

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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