

Recombinant Human RAF1 Protein, His-tagged

Cat. No. RAF1-19H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Ras Binding Domain (RBD) of Raf-1 Proto-Oncogene, Serine/Threonine Kinase (RAF1), (UniProt # P04049, amino acids 1-149), expressed with an N-terminal 6XHis and glutathione S-transferase (GST) dual tag in E. coli. The dual 6xHis-GST tag allows immobilization of Raf1 RBD Protein and RBD-Ras complexes on either Ni-NTA or glutathione agarose resin columns.
Species	Human
Source	E.coli
ProteinLength	1-149 a.a.
Description	The Raf1 RBD protein binds specifically to GTP-bound Ras proteins. Ras proteins, like other small GTPases, regulate molecular events by cycling between an inactive GDP-bound form and an active GTP-bound form. In its active (GTP-bound) state, Ras binds specifically to the Ras-binding domain (RBD) of Raf1 to control downstream signaling cascades. The affinity between RBD and GDP-bound Ras is three orders of magnitude lower. Therefore, the RBD protein can be used to specifically precipitate active, GTP-bound Ras as well as to specifically block the activity of Ras in vitro and in vivo.
Purity	> 80% by Coomassie staining
Applications	Measurement of the GTP/GDP bound ratio of Ras in vitro. Quantitation of GTP-bound Ras from tissue and tissue culture cell lysates.

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	RAS/RAF binding studies. Inhibitor screening for RAS/RAF interaction
Notes	This product is for laboratory research use only.
Storage	Storage is recommended at -20 centigrade for longer periods of time.
Concentration	1.0 mg/mL by A280
Storage Buffer	20 mM HEPES, pH 7.5, 100 mM NaCl, and 20% Glycerol.
Shipping	Product requires shipping on ice packs.

GENE INFORMATION

Gene Name	RAF1 Raf-1 proto-oncogene, serine/threonine kinase [Homo sapiens (human)]
Official Symbol	RAF1
Synonyms	RAF1; Raf-1 proto-oncogene, serine/threonine kinase; NS5; CRAF; Raf-1; c-Raf; CMD1NN; RAF proto-oncogene serine/threonine-protein kinase; C-Raf proto-oncogene, serine/threonine kinase; Oncogene RAF1; proto-oncogene c-RAF; raf proto-oncogene serine/threonine protein kinase; v-raf-1 murine leukemia viral oncogene homolog 1; v-raf-1 murine leukemia viral oncogene-like protein 1; EC 2.7.11.1
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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