

Product: RAF1, active
Catalog #: 02-2053
Amount: 5 µg

DESCRIPTION: RAF1 is a MAP kinase kinase kinase (MAP3K), which functions downstream of the Ras family of membrane associated GTPases to which it binds directly (1). The activated RAF1 can phosphorylate and 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 (2)
The gene accession number is [NM 002880](#)
Gene Aliases: none

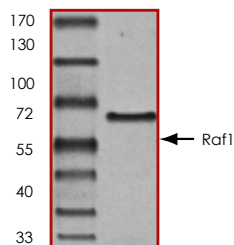
SOURCE: Recombinant full-length human RAF1 (307-end) was expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag

MOLECULAR WEIGHT: 64 kDa
PURITY: > 90% (by densitometry)
FORM: Purified, in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol

CONCENTRATION: 0.1 mg/ml
SPECIFIC ACTIVITY: 105 nmol/mim/mg
STORAGE: -70°C (aliquot). AVOID repeated Freeze/thaw cycles

REFERENCE:

1. Rapp, U. et al: Structure and biological activity of v-raf, a unique oncogene transduced by a retrovirus. *Proc. Nat. Acad. Sci.* 80: 4218-4222, 1983
2. Li, P. et al: Raf-1: a kinase currently without a cause but not lacking in effects. *Cell* 64: 479-482, 1991



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