



# Recombinant Rat RAF proto-oncogene serine/threonine-protein kinase (Raf1)

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| <b>Product Code</b>      | CSB-EP019284RA  |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.   |
| <b>Uniprot No.</b>       | P11345  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Rattus norvegicus (Rat)   |
| <b>Purity</b>            | >85% (SDS-PAGE)   |
| <b>Sequence</b>          | MEHIQGAWKT ISNGFGLKDA VFDGSSCISP TIVQQFGYQR RASDDGKLTD<br>SSKTSNTIRV FLPNKQRTVV NVRNGMSLHD CLMKALKVRG LQPECCAIFR<br>LLQEHKGGKA RLDWNTDAAS LIGEELQVDF LDHVPLTTHN FARKTFLKLA<br>FCDICQKFL NGFRCQTCGY KFHEHCSTKV PTMCVDWSNI RQLLLFPNST<br>ASDSGVPAPP SFTMRRMRES VSRMPASSQH RYSTPHAFTF NTSSPSSEGS<br>LSQRQRSTST PNVHVMSTTL PVDSRMIEDA IRSHSESASP SALSSSPNNL<br>SPTGWSQPKT PVPAQRERAP GSGTQEKNKI RPRGQRDSSY YWEIEASEVM<br>LSTRIGSGSF GTVYKGGKWHG DVAVKILKVV DPTPEQLQAF RNEVAVLRKT<br>RHNILLFMG YMTKDNLAIV TQWCEGSSLY KHLHVQETKF QMFQLIDIAR<br>QTAQGMDYLH AKNIIHRDMK SNNIFLHEGL TVKIGDFGLA TVKSRWSGSQ<br>QVEQPTGSVL WMAPEVIRMQ DNNPFSFQSD VYSYGIVLYE LMTGELPYSH<br>INNDRQIIFM VGRGYASPD LSRLYKNCPKA MKRLVADCVK KVKEERPLFP<br>QILSSIELLQ HSLPKINRSA SEPSLHRAAH TEDINACTLT TSPRLPVF |
| <b>Source</b>            | E.coli  |
| <b>Target Names</b>      | Raf1  |
| <b>Protein Names</b>     | Recommended name: RAF proto-oncogene serine/threonine-protein kinase<br>EC= 2.7.11.1 Alternative name(s): Proto-oncogene c-RAF Short name= cRaf<br>Raf-1  |
| <b>Expression Region</b> | 1-648   |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.   |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.   |
| <b>Protein Length</b>    | Full length protein   |
| <b>Target Details</b>    | 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.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.