

Product datasheet for TP762700

OriGene Technologies, Inc.

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RAF1 (NM_002880) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Purified recombinant protein of Human v-raf-1 murine leukemia viral oncogene homolog 1

(RAF1), 193Leu-353Thr, with N-terminal His tag, expressed in E.coli, 50ug

Species: Human
Expression Host: E. coli

Expression cDNA Clone

or AA Sequence:

A DNA sequence encoding the region (193Leu-353Thr) of RAF1

Tag: N-His

Predicted MW: 20.0 kDa

Concentration: >0.05 ug/ul as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 50mM Tris, pH8.0, 8M Urea

Storage: Store at -80°C after receiving vials.

Stability: Stable for at least 1 year from receipt of products under proper storage and handling

conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 002871

Locus ID: 5894

UniProt ID: <u>P04049</u>, <u>L7RRS6</u>

RefSeq Size: 3291 Cytogenetics: 3p25.2 RefSeq ORF: 1944

Synonyms: c-Raf; CMD1NN; CRAF; NS5; Raf-1





Summary:

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. [provided by RefSeq, Jul 2008]

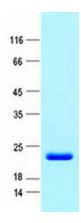
Protein Families:

Druggable Genome, Protein Kinase

Protein Pathways:

Acute myeloid leukemia, B cell receptor signaling pathway, Bladder cancer, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Gap junction, Glioma, GnRH signaling pathway, Insulin signaling pathway, Longterm depression, Long-term potentiation, MAPK signaling pathway, Melanogenesis, Melanoma, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Nonsmall cell lung cancer, Pancreatic cancer, Pathways in cancer, Progesterone-mediated oocyte maturation, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway, Vascular smooth muscle contraction, VEGF signaling pathway

Product images:



Coomassie blue staining of purified RAF1 protein (Cat #TP762700). The protein was produced from E.coli.