

Product datasheet for TP710020

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

RAF1 (NM 002880) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human v-raf-1 murine leukemia viral oncogene homolog 1

(RAF1), residues Ser306-Phe648, with N-terminal polyhistidine tag, expressed in sf9 cells

A DNA sequence from TrueORF clone, RC201983, encoding the region(Ser306-Phe648) of

Species: Human

Expression Host: Sf9

Expression cDNA Clone

human RAF1

or AA Sequence:

N-His Tag: Predicted MW: 39 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

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

Buffer: 50 mM Tris-HCl, pH 8.0, 150 mM NaCl, 20% glycerol

Note: For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Store at -80°C. Storage:

Stable for 12 months from the date of receipt of the product under proper storage and Stability:

handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 002873

Locus ID: 5894 UniProt ID: P04049 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:

