

Human RAF1 Knockdown Cell Lysate

Cat. No. RAF1-287HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated RAF1 Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	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.
Form	Cell-Tissue Lysis buffer
Molecular Mass	73 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.

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Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg RAF1 KD HeLa cell lysate
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, Long-term depression, Long-term potentiation, MAPK signaling pathway, Melanogenesis, Melanoma, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Non-small 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
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	RAF1 v-raf-1 murine leukemia viral oncogene homolog 1 [Homo sapiens (human)]
Official Symbol	RAF1
Synonyms	RAF1; v-raf-1 murine leukemia viral oncogene homolog 1; RAF proto-oncogene

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serine/threonine-protein kinase; c Raf; CRAF; Raf 1; Oncogene RAF1; proto-oncogene c-RAF; raf proto-oncogene serine/threonine protein kinase; NS5; Raf-1; c-Raf;

Gene ID 5894

mRNA Refseq NM_002880

Protein Refseq NP_002871

MIM 164760

UniProt ID P04049

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