Recombinant Human BRAF, GST-tagged, Active

Cat. No. BRAF-253H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BRAF (416-766) was expressed by baculovirus in*Sf9 insect cell*susing a N-terminal GST tag. MW = 63 kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	416-766 a.a.
Description	BRAF is a member of the RAF family that is activated by members of the Ras family upon growth factor-induced stimulation. Active Ras can induce heterodimerization of cRaf and BRAF and this may explain the observed cooperativity of cRaf and BRaf in cells responding to growth factor signals. Activating mutations in the BRAF gene are present in a large percentage of human malignant melanomas and in a proportion of colon cancers. The vast majority of these mutations result in a valine to glutamic acid change at residue 599 within the activation segment of B-RAF.
Sequence	416-766.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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GENE INFORMATION

Gene Name	BRAF v-raf murine sarcoma viral oncogene homolog B1 [Homo sapiens]
Synonyms	v-raf murine sarcoma viral oncogene homolog B1; BRAF1; RAFB1; B-RAF1; FLJ95109; MGC126806; MGC138284; BRAF; B-Raf; 94 kDa B-raf protein; murine sarcoma viral (v-raf) oncogene homolog B1; B-Raf proto-oncogene serine/threonine-protein kinase (p94); B-Raf; EC 2.7.11.1; p94
Gene ID	673
mRNA Refseq	NM_004333
Protein Refseq	NP_004324
MIM	164757
UniProt ID	P15056
Chromosome Location	7q34
Pathway	Acute myeloid leukemia; Bladder cancer; Chemokine signaling pathway; Chronic myeloid leukemia; Colorectal cancer; Endometrial cancer; ErbB signaling pathway; Focal adhesion; Glioma; Insulin signaling pathway; Long-term depression; Long-term potentiation; MAPK signaling pathway; 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; Thyroid cancer; Vascular smooth muscle contraction; mTOR signaling pathway

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Function	mitogen-activated protein kinase kinase binding; MAP kinase kinase kinase activity; protein heterodimerization activity; protein serine/threonine kinase activity; protein tyrosine kinase activity; receptor signaling protein activity; ATP binding; metal ion binding; nucleotide binding; protein binding; transferase activity; zinc ion binding
PDB rendering based on 1uwh.	

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