

Recombinant Human KRAS

Cat. No. KRAS-29908TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human cK Ras; 188 amino acids, 21.4kDa.
Species	Human
Source	E.coli
Description	This gene, a Kirsten ras oncogene homolog from the mammalian ras gene family, encodes a protein that is a member of the small GTPase superfamily. A single amino acid substitution is responsible for an activating mutation. The transforming protein that results is implicated in various malignancies, including lung adenocarcinoma, mucinous adenoma, ductal carcinoma of the pancreas and colorectal carcinoma. Alternative splicing leads to variants encoding two isoforms that differ in the C-terminal region.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 64mM Tris HCl, 5mM DTE (1, 4-Dithioerythritol), 10mM Magnesium chloride, pH 7.2
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence	Belongs to the small GTPase superfamily. Ras family.

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Similarities

Full Length Full L.

GENE INFORMATION

Gene Name KRAS v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog [Homo sapiens]

Official Symbol KRAS

Synonyms KRAS; v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog; KRAS2, v Ki ras2
Kirsten rat sarcoma 2 viral oncogene homolog; GTPase KRas; KRAS1;

Gene ID 3845

mRNA Refseq NM_004985

Protein Refseq NP_004976

MIM 190070

Uniprot ID P01116

**Chromosome
Location** 12p12.1

Pathway ARMS-mediated activation, organism-specific biosystem; Acute myeloid leukemia,
organism-specific biosystem; Acute myeloid leukemia, conserved biosystem;
Aldosterone-regulated sodium reabsorption, organism-specific biosystem;
Aldosterone-regulated sodium reabsorption, conserved biosystem;

Function GDP binding; GMP binding; GTP binding; GTPase activity; LRR domain binding;

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