

KRAS Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM01781

Basic Information

Catalog No.

RM01781

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockout

Gene Information

Species

Human

Gene ID

3845

Swiss Prot

P01116

Synonyms

C-K-RAS; CFC2; K-RAS2A; K-RAS2B; K-RAS4A; K-RAS4B; KI-RAS; KRAS1; KRAS2; NS; NS3; RALD; RASK2; c-Ki-ras2

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Background

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. [provided by RefSeq, Jul 2008]

Product Information

Description

KRAS Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:13bp deletion in exon2

Allele-2:13bp deletion in exon2

Mammalian cells such as human, rat and mouse cells are normally diploid with two alleles. Homozygote: both alleles were knocked out, mRNA has no signal, no expression of proteins. Heterozygote: only one allele was knocked out, the mRNA transcript levels was decreased compared to wild type, and the protein expression levels was also lower than that of the wild type.

Packaging

1 vial parental cell Lysate and 1 vial knockout cell Lysate

Shipping Conditions

4°C

Amount

50μL, 2μg/μL.

Storage

Lysate is stable for 12 months when stored at -20°C. Minimizing freeze-thaw cycles.

Protocol

To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

Sequencing data

WT ACCTGTCTTTGGA*****GCAGGTCAAGAGGA
Mut ACCTGTCTTTGGA***Deletion***GCAGGTCAAGAGGA
Allele-1: 13bp deletion in exon2
WT ACCTGTCTTTGGA*****GCAGGTCAAGAGGA
Mut ACCTGTCTTTGGA***Deletion***GCAGGTCAAGAGGA
Allele-2: 13bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and KRAS knockout (KO) 293T cells, using sanger sequencing.