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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

Contact

400-999-6126

cn.market@abclonal.com.cn

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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℃

Amount
50μL, 2μg/μL.

Storage
Store at -20℃

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

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WT     ACCTGTCTCTTGGA**************GCAGGTCAAGAGGA
Mut    ACCTGTCTCTTGGA***Deletion***GCAGGTCAAGAGGA
Allele-1：13bp deletion in exon2
WT     ACCTGTCTCTTGGA**************GCAGGTCAAGAGGA
Mut    ACCTGTCTCTTGGA***Deletion***GCAGGTCAAGAGGA
Allele-2：13bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and KRAS knockout (KO) 293T cells, using sanger sequencing.