

YWHAB Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM50036

Basic Information

Catalog No.

RM50036

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

YWHAB

Species

Human

Gene ID

7529

Swiss Prot

P31946

Synonyms

HS1; GW128; YWHAA; KCIP-1; HEL-S-1;
14-3-3 alpha/beta

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Background

This gene encodes a protein belonging to the 14-3-3 family of proteins, members of which mediate signal transduction by binding to phosphoserine-containing proteins. This highly conserved protein family is found in both plants and mammals. The encoded protein has been shown to interact with RAF1 and CDC25 phosphatases, suggesting that it may play a role in linking mitogenic signaling and the cell cycle machinery. Two transcript variants, which encode the same protein, have been identified for this gene.

Product Information

Description

YWHAB Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.

Allele-1:127bp deletion in exon1

Allele-2:127bp deletion in exon1

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 AGCCAAACTCGCTG*****CTCTTCCTGGCGTG
Mut AGCCAAACTCGCTG***Deletion***CTCTTCCTGGCGTG
Allele-1: 127bp deletion in exon1

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

WT AGCCAAACTCGCTG*****CTCTTCCTGGCGTG
Mut AGCCAAACTCGCTG***Deletion***CTCTTCCTGGCGTG
Allele-2: 127bp deletion in exon1