

YWHAB Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02753

Basic Information

Catalog No.

RM02753

Category

Cell Line

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 line and 1 vial knockout cell line

Shipping Conditions

Dry ice

Amount

1~5x10⁶ cells/vial.

Storage

Stored in liquid nitrogen for a long time less than -130°C. Minimizing freeze-thaw cycles.

Protocol

Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at 37°C with 5% CO₂ condition.

1. Thaw the vial in 37°C water bath ,and shake it to melt as soon as possible.
2. Transfer the cell suspension to a 15mL conical tube with pre-warmed 5mL complete medium and centrifuge 1000rpm for approximately 5 minutes at room temperature.
3. Remove and discard the supernatant.
4. Resuspend the cell pellet with 1mL pre-warmed complete medium and seed in 10cm dish.
5. Add 8-10mL of complete medium.
6. Incubate the culture at 37°C incubator with 5% CO₂.
7. A subcultivation ratio of 1:2-1:4 is recommended.

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