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# YWHAB Knockout HeLa Cell Line, Homozygous

**Catalog No.: RM02753**

## Basic Information

**Catalog No.**
RM02753

**Category**
Cell Line

**Parental Cell line**
HeLa

**Genotype**
Knockout

## 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.

## 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

## 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**
1~5x$10^6$ cells/vial.

**Storage**
Stored in liquid nitrogen for a long time less than -130℃. 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℃ with 5% $CO_2$ condition.
1. Thaw the vial in 37℃ 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℃ incubator with 5% $CO_2$.
7. A subcultivation ratio of 1:2-1:4 is recommended.

## Contact


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## Sequencing data

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

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

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