

# CDH1 Knockout HeLa Cell Lysate, Homozygous

**Catalog No.: RM02079**

## Basic Information

**Catalog No.**

RM02079

**Category**

Cell Lysate

**Parental Cell line**

HeLa

**Genotype**

Knockout

## Background

This gene encodes a classical cadherin of the cadherin superfamily. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature glycoprotein. This calcium-dependent cell-cell adhesion protein is comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Mutations in this gene are correlated with gastric, breast, colorectal, thyroid and ovarian cancer. Loss of function of this gene is thought to contribute to cancer progression by increasing proliferation, invasion, and/or metastasis. The ectodomain of this protein mediates bacterial adhesion to mammalian cells and the cytoplasmic domain is required for internalization. This gene is present in a gene cluster with other members of the cadherin family on chromosome 16. [provided by RefSeq, Nov 2015]

## Gene Information

**Gene Symbol**

CDH1

**Species**

Human

**Gene ID**

999

**Swiss Prot**

P12830

**Synonyms**

Arc-1; CD324; CDHE; ECAD; LCAM; UVO

## Contact

 | 400-999-6126 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn) | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Product Information

**Description**

CDH1 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.

Allele-1:exon2 was deleted

Allele-2:exon2 was deleted

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

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WT    GAGGGAACCTCCG\*\*\*\*\*GTTTACGACTGAAC  
Mut   GAGGGAACCTCCG\*\*\*Deletion\*\*\*GTTTACGACTGAAC  
Allele-1: exon2 was deleted

WT    GAGGGAACCTCCG\*\*\*\*\*TTTACGACTGAACA  
Mut   GAGGGAACCTCCG\*\*\*Deletion\*\*\*TTTACGACTGAACA  
Allele-2: exon2 was deleted

Genome sequence analysis of PCR products from parental (WT) and CDH1 knockout (KO) HeLa cells, using sanger sequencing.