

# EGFR Knockdown HeLa Cell Lysate, Heterozygous

**Catalog No.:** RM50152

## Basic Information

**Catalog No.**

RM50152

**Category**

Cell Lysate

**Parental Cell line**

HeLa

**Genotype**

Knockdown

## Gene Information

**Gene Symbol**

EGFR

**Species**

Human

**Gene ID**

1956

**Swiss Prot**

P00533

**Synonyms**

ERBB; ERBP; HER1; mENA; ERBB1; PIG61; NISBD2; EGFR

## Contact

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## Background

The protein encoded by this gene is a transmembrane glycoprotein that is a member of the protein kinase superfamily. This protein is a receptor for members of the epidermal growth factor family. EGFR is a cell surface protein that binds to epidermal growth factor, thus inducing receptor dimerization and tyrosine autophosphorylation leading to cell proliferation. Mutations in this gene are associated with lung cancer. EGFR is a component of the cytokine storm which contributes to a severe form of Coronavirus Disease 2019 (COVID-19) resulting from infection with severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2).

## Product Information

**Description**

EGFR Knockdown cell line is engineered from HeLa cell line with Gene-Editing Technology.

Allele-1:96bp deletion in exon3

Allele-2:97bp deletion in exon3

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 AGTGGAGCGAATTC\*\*\*\*\*TGAAGGAGCTGCCC  
Mut AGTGGAGCGAATTC\*\*\*Deletion\*\*\*TGAAGGAGCTGCCC  
Allele-1: 96bp deletion in exon3

WT CAGTGGAGCGAATT\*\*\*\*\*TGAAGGAGCTGCCC  
Mut CAGTGGAGCGAATT\*\*\*Deletion\*\*\*TGAAGGAGCTGCCC  
Allele-2: 97bp deletion in exon3

Genome sequence analysis of PCR products from parental (WT) and EGFR knockdown (KD) HeLa cells, using sanger sequencing.