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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; ERRP; HER1; mENA; ERBB1; PIG61; NISBD2; EGFR

Contact

400-999-6126

cn.market@abclonal.com.cn

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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℃

Amount
50μL, 2μg/μL.

Storage
Store at -20℃

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