

# ERBB2 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02053

## Basic Information

**Catalog No.**

RM02053

**Category**

Cell Lysate

**Parental Cell line**

HeLa

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

ERBB2

**Species**

Human

**Gene ID**

2064

**Swiss Prot**

P04626

**Synonyms**

CD340; HER-2; HER-2/neu; HER2; MLN19; NEU; NGL; TKR1

## Contact

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

## Background

This gene encodes a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. This protein has no ligand binding domain of its own and therefore cannot bind growth factors. However, it does bind tightly to other ligand-bound EGF receptor family members to form a heterodimer, stabilizing ligand binding and enhancing kinase-mediated activation of downstream signalling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. Allelic variations at amino acid positions 654 and 655 of isoform a (positions 624 and 625 of isoform b) have been reported, with the most common allele, Ile654/Ile655, shown here. Amplification and/or overexpression of this gene has been reported in numerous cancers, including breast and ovarian tumors. Alternative splicing results in several additional transcript variants, some encoding different isoforms and others that have not been fully characterized. [provided by RefSeq, Jul 2008]

## Product Information

**Description**

ERBB2 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.

Allele-1:1bp insertion in exon2

Allele-2:47bp deletion in exon2

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

---

WT GCAGAGGCTGCGGATTGT-GCGAGGCACCCAGCTCTTT  
Mut GCAGAGGCTGCGGATTGTGCGAGGCACCCAGCTCTTT  
Allele-1: 1bp insertion in exon2  
WT CTGCAGAGGCTGCG\*\*\*\*\*TGCTAGACAATGGA  
Mut CTGCAGAGGCTGCG\*\*\*Deletion\*\*\*TGCTAGACAATGGA  
Allele-2: 47bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and ERBB2 knockout (KO) HeLa cells, using sanger sequencing.