

# BDNF Knockdown HeLa Cell Lysate, Heterozygous

**Catalog No.:** RM01983

## Basic Information

**Catalog No.**

RM01983

**Category**

Cell Lysate

**Parental Cell line**

HeLa

**Genotype**

Knockdown

## Gene Information

**Gene Symbol**

BDNF

**Species**

Human

**Gene ID**

627

**Swiss Prot**

P23560

**Synonyms**

ANON2; BULN2

## Contact

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## Background

This gene encodes a member of the nerve growth factor family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature protein. Binding of this protein to its cognate receptor promotes neuronal survival in the adult brain. Expression of this gene is reduced in Alzheimer's, Parkinson's, and Huntington's disease patients. This gene may play a role in the regulation of the stress response and in the biology of mood disorders. [provided by RefSeq, Nov 2015]

## Product Information

**Description**

BDNF Knockdown HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.

Allele-1:179bp deletion in exon1

Allele-2:161bp 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 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 GGTGGCTTGGCCTA\*\*\*\*\*TGATGCTCAGTAGT  
Mut GGTGGCTTGGCCTA\*\*\*Deletion\*\*\*TGATGCTCAGTAGT  
Allele-1: 179bp deletion in exon1  
WT CTACCCAGGTGTGC\*\*\*\*\*TCCAGGGTGATGCT  
Mut CTACCCAGGTGTGC\*\*\*Deletion\*\*\*TCCAGGGTGATGCT  
Allele-2: 161bp deletion in exon1

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