

NFE2L2 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02254

Basic Information

Catalog No.

RM02254

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

NFE2L2

Species

Human

Gene ID

4780

Swiss Prot

Q16236

Synonyms

HEBP1; NRF2

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Background

This gene encodes a transcription factor which is a member of a small family of basic leucine zipper (bZIP) proteins. The encoded transcription factor regulates genes which contain antioxidant response elements (ARE) in their promoters; many of these genes encode proteins involved in response to injury and inflammation which includes the production of free radicals. Multiple transcript variants encoding different isoforms have been characterized for this gene. [provided by RefSeq, Sep 2015]

Product Information

Description

NFE2L2 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.

Allele-1:5bp deletion in exon1

Allele-2:2bp 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

WT ACGGAAAGAGTATGAGCTGGAAAAACAGAAAA
Mut ACGGAAAGAGTATG - - - -GAAAAACAGAAAA
Allele-1: 5bp deletion in exon1

WT GCGACGGAAAGAGTATGAGCTGGAAAAACAGA
Mut GCGACGGAAAGAGTGT -GCTGGAAAAACAGA
Allele-2: 2bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and NFE2L2 Knockout (KO) HeLa cells, using sanger sequencing.