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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℃

Amount
50μL, 2μg/μL.

Storage
Lysate is stable for 12 months when stored at -20℃. 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 ACGGAAAGAGTATGAGCTGGAAAAACAGAAAAA
Mut ACGGAAAGAGTATG - - - - -GAAAAACAGAAAAA
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.