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NF2 Knockdown HeLa Cell Lysate, Heterozygous

Catalog No.: RM01853

Basic Information

Catalog No.
RM01853

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockdown

Gene Information

Gene Symbol
NF2

Species
Human

Gene ID
4771

Swiss Prot
P35240

Synonyms
ACN; BANF; SCH

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Background

This gene encodes a protein that is similar to some members of the ERM (ezrin, radixin, moesin) family of proteins that are thought to link cytoskeletal components with proteins in the cell membrane. This gene product has been shown to interact with cell-surface proteins, proteins involved in cytoskeletal dynamics and proteins involved in regulating ion transport. This gene is expressed at high levels during embryonic development; in adults, significant expression is found in Schwann cells, meningeal cells, lens and nerve. Mutations in this gene are associated with neurofibromatosis type II which is characterized by nervous system and skin tumors and ocular abnormalities. Two predominant isoforms and a number of minor isoforms are produced by alternatively spliced transcripts. [provided by RefSeq, Jul 2008]

Product Information

Description
NF2 Knockdown HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:29bp deletion in exon1
Allele-2:WT
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

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WT   AGCAACCCAAGA**********GCCGAGATGGAG
Mut  AGCAACCCAAGA***Deletion***GCCGAGATGGAG
Allele-1:  29 bp deletion in exon1

WT    AGCAACCCAAGA**********GCCGAGATGGAG
Mut   AGCAACCCAAGA**********GCCGAGATGGAG
Allele-2:  WT
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Genome sequence analysis of PCR products from parental (WT) and NF2 knockdown (KD) HeLa cells, using sanger sequencing.