

NOX4 Knockdown HeLa Cell Lysate, Heterozygous

Catalog No.: RM02066

Basic Information

Catalog No.

RM02066

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockdown

Gene Information

Gene Symbol

NOX4

Species

Human

Gene ID

50507

Swiss Prot

Q9NPH5

Synonyms

KOX; KOX-1; RENOX

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Background

This gene encodes a member of the NOX-family of enzymes that functions as the catalytic subunit the NADPH oxidase complex. The encoded protein is localized to non-phagocytic cells where it acts as an oxygen sensor and catalyzes the reduction of molecular oxygen to various reactive oxygen species (ROS). The ROS generated by this protein have been implicated in numerous biological functions including signal transduction, cell differentiation and tumor cell growth. A pseudogene has been identified on the other arm of chromosome 11. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Jan 2009]

Product Information

Description

NOX4 Knockdown HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.

Allele-1:54bp deletion in exon

Allele-2:47bp deletion in exon

Allele-3:2bp insertion and 12 bp deletion in exon

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 CTGTTCTAACC*****GAGGACAGTCAA
Mut CTGTTCTAACC****Deletion****GAGGACAGTCAA
Allele-1: 54 bp deletion in exon

WT TCTTAACCTCAA*****TCCGAGGATCAC
Mut TCTTAACCTCAA****Deletion****TCCGAGGATCAC
Allele-2: 47bp deletion in exon

WT TTAACCTCAACT*****CGAGGATCACAG
Mut TTAACCTCAACTCT****Deletion****CGAGGATCACAG
Allele-3: 2bp insertion and 12 bp deletion in exon

Genome sequence analysis of PCR products from parental (WT) and NOX4 Knockdown (KD) HeLa cells, using sanger sequencing.