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NOX4 Knockdown HeLa Cell Lysate, Heterozygous

Catalog No.: RM02066

Basic Information

Catalog No.
RM02066

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockdown

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]

Gene Information

Gene Symbol
NOX4

Species
Human

Gene ID
50507

Swiss Prot
Q9NPH5

Synonyms
KOX; KOX-1; RENOX

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℃

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.

Contact

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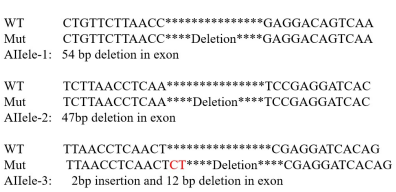
Sequencing data



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