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NKX2-1 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02464

Basic Information

Catalog No.
RM02464

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
NKX2-1

Species
Human

Gene ID
7080

Swiss Prot
P43699

Synonyms
BCH; BHC; NK-2; NKX2.1; NKX2A; NMTC1; T/EBP; TEBP; TITF1; TTF-1; TTF1

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Background

This gene encodes a protein initially identified as a thyroid-specific transcription factor. The encoded protein binds to the thyroglobulin promoter and regulates the expression of thyroid-specific genes but has also been shown to regulate the expression of genes involved in morphogenesis. Mutations and deletions in this gene are associated with benign hereditary chorea, choreoathetosis, congenital hypothyroidism, and neonatal respiratory distress, and may be associated with thyroid cancer. Multiple transcript variants encoding different isoforms have been found for this gene. This gene shares the symbol/alias 'TTF1' with another gene, transcription termination factor 1, which plays a role in ribosomal gene transcription. [provided by RefSeq, Feb 2014]

Product Information

Description
NKX2-1 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:109bp deletion in exon2
Allele-2:109bp deletion in exon2
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
Store at -20℃

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     GCTGGCGGCGTACA**************CTCGCACTCCGCCG
Mut    GCTGGCGGCGTACA***Deletion***CTCGCACTCCGCCG
Allele-1：109bp deletion  in exon2
WT     GCTGGCGGCGTACA**************CTCGCACTCCGCCG
Mut    GCTGGCGGCGTACA***Deletion***CTCGCACTCCGCCG
Allele-2：109bp deletion  in exon2
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Genome sequence analysis of PCR products from parental (WT) and NKX2-1 knockout (KO) 293T cells, using sanger sequencing.