

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

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

Contact

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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°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 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

Genome sequence analysis of PCR products from parental (WT) and NKX2-1 knockout (KO) 293T cells, using sanger sequencing.