

OLIG2 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02786

Basic Information

Catalog No.

RM02786

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

OLIG2

Species

Human

Gene ID

10215

Swiss Prot

Q13516

SynonymsBHLHB1; OLIGO2; RACK17; PRKCBP2;
bHLHe19; Olig2

Contact

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Background

This gene encodes a basic helix-loop-helix transcription factor which is expressed in oligodendroglial tumors of the brain. The protein is an essential regulator of ventral neuroectodermal progenitor cell fate. The gene is involved in a chromosomal translocation t(14;21)(q11.2;q22) associated with T-cell acute lymphoblastic leukemia. Its chromosomal location is within a region of chromosome 21 which has been suggested to play a role in learning deficits associated with Down syndrome.

Product Information

Description

OLIG2 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.

Allele-1:136bp deletion in exon1

Allele-2:136bp deletion in exon1

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 GTCGCTACGTCGT*****GGTCATGCCGTACG
Mut GTCGCTACGTCGT***Deletion***GGTCATGCCGTACG
Allele-1: 136bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and OLIG2 knockout (KO) 293T cells, using sanger sequencing.

WT GTCGCTACGTCGT*****GGTCATGCCGTACG
Mut GTCGCTACGTCGT***Deletion***GGTCATGCCGTACG
Allele-2: 136bp deletion in exon1