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OLIG2 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02786

Basic Information

Catalog No.
RM02786

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

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.

Gene Information

Gene Symbol
OLIG2

Species
Human

Gene ID
10215

Swiss Prot
Q13516

Synonyms
BHLHB1; OLIGO2; RACK17; PRKCBP2; bHLHe19; Olig2

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℃

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

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WT    GTCGTCTACGTCGT**********GGTCATGCCGTACG
Mut   GTCGTCTACGTCGT***Deletion***GGTCATGCCGTACG
AIIele-1:   136bp deletion in exon1

WT    GTCGTCTACGTCGT**********GGTCATGCCGTACG
Mut   GTCGTCTACGTCGT***Deletion***GGTCATGCCGTACG
AIIele-2:   136bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and OLIG2 knockout (KO) 293T cells, using sanger sequencing.