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SETD2 Knockdown 293T Cell Lysate, Heterozygous

Catalog No.: RM02311

Basic Information

Catalog No.
RM02311

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockdown

Gene Information

Gene Symbol
SETD2

Species
Human

Gene ID
29072

Swiss Prot
Q9BYW2

Synonyms
HBP231; HIF-1; HIP-1; HSPC069; HYPB; KMT3A; LLS; SET2; p231HBP

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Background

Huntington's disease (HD), a neurodegenerative disorder characterized by loss of striatal neurons, is caused by an expansion of a polyglutamine tract in the HD protein huntingtin. This gene encodes a protein belonging to a class of huntingtin interacting proteins characterized by WW motifs. This protein is a histone methyltransferase that is specific for lysine-36 of histone H3, and methylation of this residue is associated with active chromatin. This protein also contains a novel transcriptional activation domain and has been found associated with hyperphosphorylated RNA polymerase II. [provided by RefSeq, Aug 2008]

Product Information

Description
SETD2 Knockdown 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:203bp deletion in exon3
Allele-2:207bp deletion in exon3
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.

Sequencing data

WT CCAGCTGTACCTCTT**********GATAGCAGAATCAA
Mut CCAGCTGTACCTCTT***Deletion***GATAGCAGAATCAA
Allele-1: 203bp deletion in exon3

WT CCAGCTGTACCTCT**********AGCAGAATCAACAA
Mut CCAGCTGTACCTGG***Deletion***AGCAGAATCAACAA
Allele-2: 207bp deletion in exon3

Genome sequence analysis of PCR products from parental (WT) and SETD2 Knockdown (KD) 293T cells, using sanger sequencing.