

METTL3 Knockdown U2OS cell lysate, Heterozygous

Catalog No.: RM50192

Basic Information

Catalog No.

RM50192

Category

Cell Lysate

Parental Cell line

U2OS

Genotype

Knockdown

Gene Information

Gene Symbol

METTL3

Species

Human

Gene ID

56339

Swiss Prot

Q86U44

Synonyms

M6A; IME4; Spo8; MT-A70; hMETTL3;
METTL3

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Background

This gene encodes the 70 kDa subunit of MT-A which is part of N6-adenosine-methyltransferase. This enzyme is involved in the posttranscriptional methylation of internal adenosine residues in eukaryotic mRNAs, forming N6-methyladenosine.

Product Information

Description

METTL3 Knockdown cell line is engineered from U2OS cell line with Gene-Editing Technology.

Allele-1:139bp deletion in exon2

Allele-2:138bp 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 CATTGTCTCCAACC*****CATTGCCCACTGAT
Mut CATTGTCTCCAACC***Deletion***CATTGCCCACTGAT
Allele-1: 139bp deletion in exon2

WT ATTGTCTCCAACCT*****CATTGCCCACTGAT
Mut ATTGTCTCCAACCT***Deletion***CATTGCCCACTGAT
Allele-2: 138bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and METTL3 knockdown (KD) U2OS cells, using sanger sequencing.