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EZH2 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02009

Basic Information

Catalog No.
RM02009

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
EZH2

Species
Human

Gene ID
2146

Swiss Prot
Q15910

Synonyms
ENX-1; ENX1; EZH1; EZH2b; KMT6; KMT6A; WVS; WVS2

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Background

This gene encodes a member of the Polycomb-group (PcG) family. PcG family members form multimeric protein complexes, which are involved in maintaining the transcriptional repressive state of genes over successive cell generations. This protein associates with the embryonic ectoderm development protein, the VAV1 oncoprotein, and the X-linked nuclear protein. This protein may play a role in the hematopoietic and central nervous systems. Multiple alternatively splcied transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Feb 2011]

Product Information

Description
EZH2 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:1bp insertion in exon3
Allele-2:13bp 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

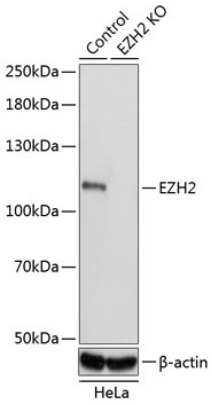
Shipping Conditions
4℃

Amount
50μL, 2μg/μL.

Storage
Store at -20℃

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.

WB data



Western blot analysis of extracts from parental (Control) and EZH2 knockout (KO) HeLa cells, using EZH2 antibody (A11085) at 1:1000 dilution.

Sequencing data

WT ATTATGATGGGAAAGTAC- ACGGGGATAGAGGTGAGC
Mut ATTATGATGGGAAAGTACCACGGGGATAGAGGTGAGC
Allele-1: 1bp insertion in exon3

WT TTATGATGGGAAAG**********AGGTGAGCCATATG
Mut TTATGATGGGAAAG***Deletion***AGGTGAGCCATATG
Allele-2: 13bp deletion in exon3

Genome sequence analysis of PCR products from parental (WT) and EZH2 knockout (KO) HeLa cells, using sanger sequencing.