

PML Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02494

Basic Information

Catalog No.

RM02494

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

PML

Species

Human

Gene ID

5371

Swiss Prot

P29590

Synonyms

MYL; PP8675; RNF71; TRIM19

Contact

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Background

The protein encoded by this gene is a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. This phosphoprotein localizes to nuclear bodies where it functions as a transcription factor and tumor suppressor. Its expression is cell-cycle related and it regulates the p53 response to oncogenic signals. The gene is often involved in the translocation with the retinoic acid receptor alpha gene associated with acute promyelocytic leukemia (APL). Extensive alternative splicing of this gene results in several variations of the protein's central and C-terminal regions; all variants encode the same N-terminus. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

Product Information

Description

PML Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:179bp deletion in exon2
Allele-2:178bp 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 CAGCAATGCCAGGC*****TTGTGGATGCGCAG
Mut CAGCAATGCCAGGC***Deletion***TTGTGGATGCGCAG
Allele-1: 179bp deletion in exon2

WT AGCAATGCCAGGCG*****TTGTGGATGCGCAG
Mut AGCAATGCCAGGCG***Deletion***TTGTGGATGCGCAG
Allele-2: 178bp deletion in exon2

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