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WT1 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02030

Basic Information

Catalog No.
RM02030

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
WT1

Species
Human

Gene ID
7490

Swiss Prot
P19544

Synonyms
AWT1; EWS-WT1; GUD; NPHS4; WAGR; WIT-2; WT33

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Background

This gene encodes a transcription factor that contains four zinc-finger motifs at the C-terminus and a proline/glutamine-rich DNA-binding domain at the N-terminus. It has an essential role in the normal development of the urogenital system, and it is mutated in a small subset of patients with Wilms tumor. This gene exhibits complex tissue-specific and polymorphic imprinting pattern, with biallelic, and monoallelic expression from the maternal and paternal alleles in different tissues. Multiple transcript variants have been described. In several variants, there is evidence for the use of a non-AUG (CUG) translation initiation codon upstream of, and in-frame with the first AUG. Authors of PMID:7926762 also provide evidence that WT1 mRNA undergoes RNA editing in human and rat, and that this process is tissue-restricted and developmentally regulated. [provided by RefSeq, Mar 2015]

Product Information

Description
WT1 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:61bp deletion in exon2
Allele-2:61bp 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℃

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.

Sequencing data

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WT     ACGGTCACCTTCGA**************TTCAAGCATGAGGA
Mut    ACGGTCACCTTCGA***Deletion***TTCAAGCATGAGGA
Allele-1：61bp deletion in exon2

WT     ACGGTCACCTTCGA**************TTCAAGCATGAGGA
Mut    ACGGTCACCTTCGA***Deletion***TTCAAGCATGAGGA
Allele-2：61bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and WT1 knockout (KO) 293T cells, using sanger sequencing.