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SOX2 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02022

Basic Information

Catalog No.
RM02022

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

This intronless gene encodes a member of the SRY-related HMG-box (SOX) family of transcription factors involved in the regulation of embryonic development and in the determination of cell fate. The product of this gene is required for stem-cell maintenance in the central nervous system, and also regulates gene expression in the stomach. Mutations in this gene have been associated with optic nerve hypoplasia and with syndromic microphthalmia, a severe form of structural eye malformation. This gene lies within an intron of another gene called SOX2 overlapping transcript (SOX2OT). [provided by RefSeq, Jul 2008]

Gene Information

Gene Symbol
SOX2

Species
Human

Gene ID
6657

Swiss Prot
P48431

Synonyms
ANOP3; MCOPS3

Product Information

Description
SOX2 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:14bp deletion in exon1
Allele-2:14bp deletion in exon1
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.

Contact

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Sequencing data

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WT     GCTGGCCCCCGGCG**************AGCGGGGTCGGGGT
Mut    GCTGGCCCCCGGCG***Deletion***AGCGGGGTCGGGGT
Allele-1：14bp deletion in exon1
WT     GCTGGCCCCCGGCG**************AGCGGGGTCGGGGT
Mut    GCTGGCCCCCGGCG***Deletion***AGCGGGGTCGGGGT
Allele-2：14bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and SOX2 knockout (KO) 293T cells, using sanger sequencing.