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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**
Lysate is stable for 12 months when stored at -20℃. 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.

## Contact


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## Sequencing data

```
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
```

Genome sequence analysis of PCR products from parental (WT) and SOX2 knockout (KO) 293T cells, using sanger sequencing.