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[KO Validated] SOX2 Rabbit mAb

Catalog No.: A29008 KO Validated Recombinant

Basic Information

Observed MW
35 kDa

Calculated MW
34 kDa

Category
Primary antibody

Applications
WB,IF/ICC,IF-P,ChIP,ELISA

Cross-Reactivity
Human, Mouse

CloneNo number
ARC3916

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).

Recommended Dilutions

WB	1:2000 - 1:20000
IF/ICC	1:1000 - 1:4000
IF-P	1:1000 - 1:4000
ChIP	2 µg antibody for 10 µg - 15 µg of Chromatin
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
6657

Swiss Prot
P48431

Immunogen
This information is considered to be commercially sensitive.

Synonyms
ANOP3; MCOPS3

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

Contact

400-999-6126

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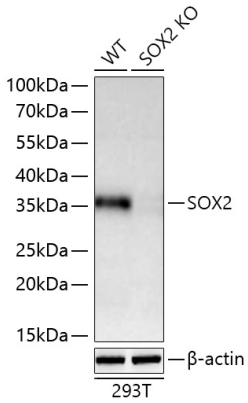
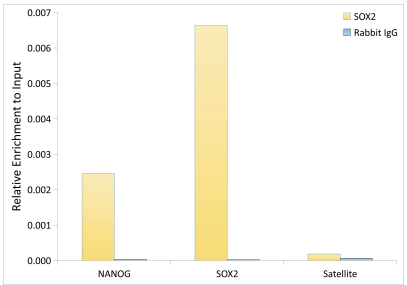
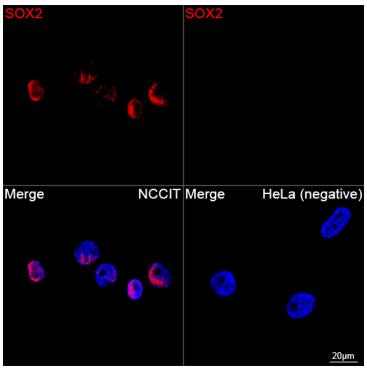
Validation Data



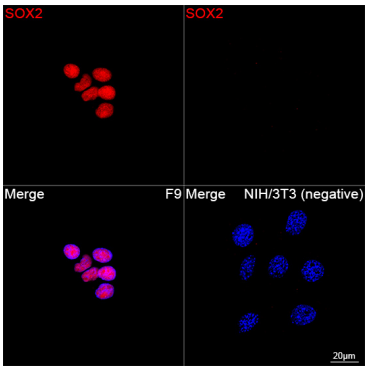
Western blot analysis of lysates from wild type (WT) and SOX2 knockout (KO) 293T cells using [KO Validated] SOX2 Rabbit mAb (A29008) at 1:20000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90 s.



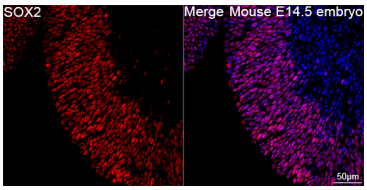
Chromatin immunoprecipitation was performed with 15 µg of cross-linked chromatin from NCCIT cells, using 2 µg of [KO Validated] SOX2 Rabbit mAb(A29008) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.



Confocal imaging of NCCIT cells and HeLa cells (negative) using [KO Validated] SOX2 Rabbit mAb (A29008, dilution 1:2000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of F9 cells and NIH/3T3 cells (negative) using [KO Validated] SOX2 Rabbit mAb (A29008, dilution 1:2000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of paraffin-embedded Mouse E 14.5 embryo tissue using [KO Validated] SOX2 Rabbit mAb (A29008, dilution 1:2000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.