SOX2 Rabbit PolymAb®

Catalog No.: A19118PM



Basic Information

Observed MW

35 kDa

Calculated MW

34 kDa

Category

Primary antibody

Applications

WB,IP,IF/ICC,IF-P,IHC-P,ChIP,ELISA

Cross-Reactivity

Human, Mouse, Rat

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 1:3000 - 1:15000

IP 0.5μg-4μg antibody for 500μg-700μg extracts of

whole cells

IF/ICC 1:50 - 1:200

IF-P 1:50 - 1:200

IHC-P 1:200 - 1:800

ChIP 3μg antibody for

10μg-15μg of Chromatin

ELISA Recommended starting

concentration is 1 µg/mL.

Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID Swiss Prot 6657 P48431

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

ANOP3; MCOPS3

Product Information

SourceIsotypePurificationRabbitIgGAffinity purification

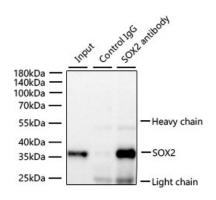
Storage

Store at -20°C. Avoid freeze / thaw cycles.

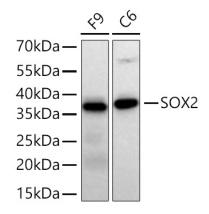
Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

Contact

<u>a</u>	400-999-6126
\bowtie	cn.market@abclonal.com.cr
•	www.abclonal.com.cr



Immunoprecipitation of SOX2 from 600 μg extracts of NCCIT cells was performed using 0.5 μg of SOX2 Rabbit PolymAb® (A19118PM). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using SOX2 Rabbit PolymAb® (A19118PM) at a dilution of 1:8000.



Western blot analysis of various lysates using SOX2 Rabbit PolymAb® (A19118PM) at 1:7000 dilution incubated overnight at 4° C.

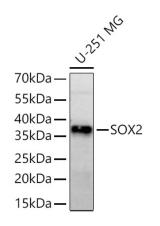
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 30s.



Western blot analysis of lysates from U-251 MG cells using SOX2 Rabbit PolymAb® (A19118PM) at 1:7000 dilution incubated overnight at $4^{\circ}\text{C}.$

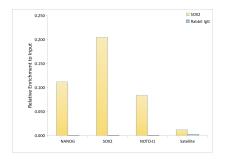
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

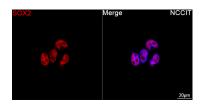
Blocking buffer: 3% nonfat dry milk in TBST.

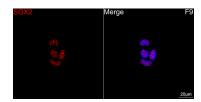
Detection: ECL Basic Kit (RM00020).

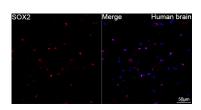
Exposure time: 90s.



Chromatin immunoprecipitation was performed with 15 μ g of cross-linked chromatin from NCCIT, using 3 μ g of SOX2 Rabbit PolymAb® (A19118PM) 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.



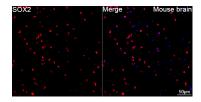


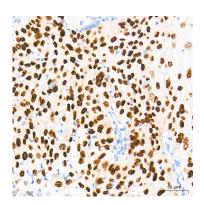


Confocal imaging of NCCIT cells using SOX2 Rabbit PolymAb® (A19118PM, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.

Confocal imaging of F9 cells using SOX2 Rabbit PolymAb® (A19118PM, dilution 1:200) followed by a further incubation with Cy3 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 Human brain tissue using SOX2 Rabbit PolymAb® (A19118PM, dilution 1:200) followed by a further incubation with Cy3 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.

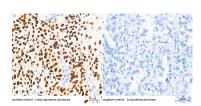




Confocal imaging of paraffin-embedded Mouse brain tissue using SOX2 Rabbit PolymAh® (A19118PM, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

Immunohistochemistry analysis of paraffinembedded Human esophagus tissue using SOX2 Rabbit PolymAb® (A19118PM) at a dilution of 1:600 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

Immunohistochemistry analysis of paraffinembedded Human lung squamous carcinoma tissue using SOX2 Rabbit PolymAb® (A19118PM) at a dilution of 1:600 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Human lung squamous carcinoma(positive control) and Human lung adenocarcinoma(negative control) tissue using SOX2 Rabbit PolymAb® (A19118PM) at a dilution of 1:600 (40x lens). High pressure

Validation Data

antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.