Leader in Biomolecular Solutions for Life Science

www.abclonal.com

SOX2 Rabbit PolymAb®

Catalog No.: A19118PM

Basic Information

Observed MW
35kDa

Calculated MW
34kDa

Category
Primary antibody

Applications
WB,IHC-P,IF/ICC,IP,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
IHC-P	1:200 - 1:800
IF/ICC	1:50 - 1:200
IP	0.5μg-4μg antibody for 500μg-700μg extracts of whole cells
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
6657

Swiss Prot
P48431

Immunogen
Synthetic peptide. 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.

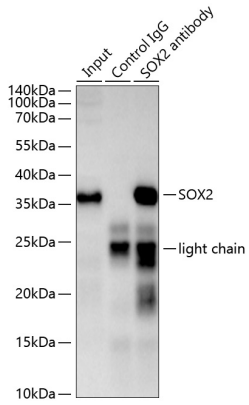
Contact

400-999-6126

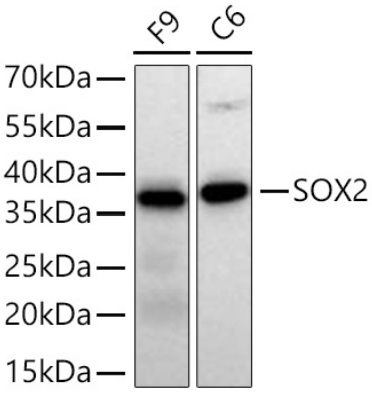
cn.market@abclonal.com.cn

www.abclonal.com.cn

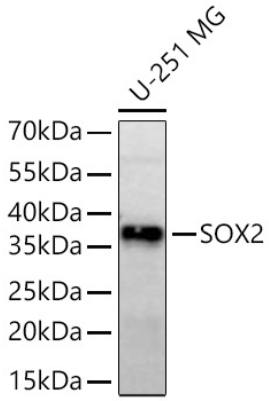
Validation Data



Immunoprecipitation of SOX2 from 600 µg extracts of NCCIT cells was performed using 0.5 µg of SOX2 Rabbit mAb (A19118PM). Rabbit IgG isotype control (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1X reducing Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using SOX2 Rabbit mAb (A19118PM) at a dilution of 1:1000.

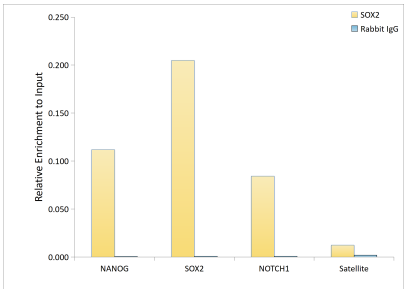


Western blot analysis of various lysates using SOX2 Rabbit PolymAb® (A19118PM) at 1:7000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.

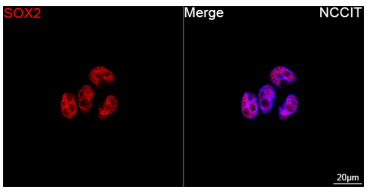


Western blot analysis of lysates from U-251 MG cells using SOX2 Rabbit PolymAb® (A19118PM) at 1:7000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.

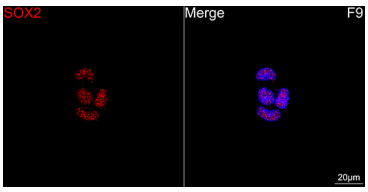
Validation Data



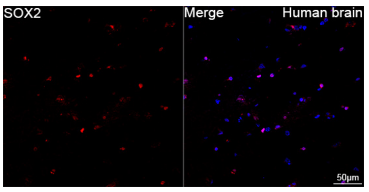
Chromatin immunoprecipitation was performed with 15 µg of cross-linked chromatin from NCCIT, using 3 µg of SOX2 Rabbit PolymAb® (A19118PM) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.



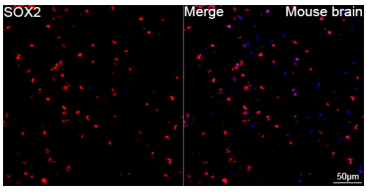
Confocal imaging of NCCIT cells using SOX2 Rabbit PolymAb® (A19118PM, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



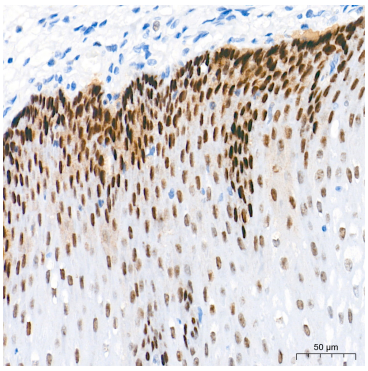
Confocal imaging of F9 cells using SOX2 Rabbit PolymAb® (A19118PM, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



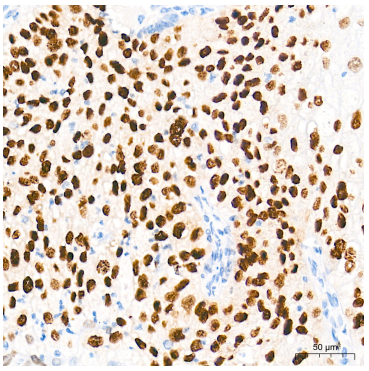
Confocal imaging of paraffin-embedded Human brain tissue using SOX2 Rabbit PolymAb® (A19118PM, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with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



Confocal imaging of paraffin-embedded Mouse brain tissue using SOX2 Rabbit 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.

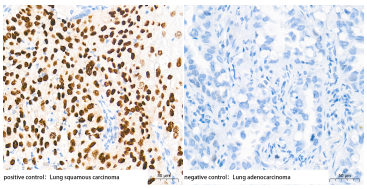


Immunohistochemistry analysis of paraffin-embedded Human esophagus tissue using SOX2 Rabbit PolymAb® (A19118PM) at a dilution of 1:600 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded 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.

Validation Data



Immunohistochemistry analysis of paraffin-embedded 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 antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.