

Anti-SOX2 Antibody (5T620)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 34 kDa. Actual: 35-40 kDa.
Clone:	5T620
Purification:	Protein A purified

Applications

Verified Activity:

1. Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (SOX2) Monoclonal Antibody, Unconjugated (TMAB-13063) at 1: 1000 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
2. Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (SOX2) Monoclonal Antibody, Unconjugated (TMAB-13063) at 1: 1000 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
3. Paraformaldehyde-fixed, paraffin embedded (mouse embryo); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (SOX2) Monoclonal Antibody, Unconjugated (TMAB-13063) at 1: 1000 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
4. Paraformaldehyde-fixed, paraffin embedded (rat embryo); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (SOX2) Monoclonal Antibody, Unconjugated (TMAB-13063) at 1: 1000 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
5. Paraformaldehyde-fixed, paraffin embedded Human Lung Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with SOX2 Monoclonal Antibody, Unconjugated (TMAB-13063) at 1:300 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.
6. Paraformaldehyde-fixed, paraffin embedded Human Glioma; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with SOX2 Monoclonal Antibody, Unconjugated (TMAB-13063) at 1:300 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.
7. Paraformaldehyde-fixed, paraffin embedded Human Esophagus Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with SOX2 Monoclonal Antibody, Unconjugated (TMAB-13063) at 1:300 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.
8. 25 ug total protein per lane of various lysates (see on figure) probed with SOX2 monoclonal antibody, unconjugated (TMAB-13063) at 1: 1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r. T. for 60 min.
9. 25 ug total protein per lane of various lysates (see on figure) probed with SOX2 monoclonal

antibody, unconjugated (TMAB-13063) at 1: 1000 dilution and 4°C overnight incubation.

Followed by conjugated secondary antibody incubation at r. T. for 60 min.

10. Paraformaldehyde-fixed, paraffin embedded Mouse Lung; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with SOX2 Monoclonal Antibody, Unconjugated (TMAB-13063) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L-HRP and DAB staining.

11. Paraformaldehyde-fixed, paraffin embedded Rat Lung; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with SOX2 Monoclonal Antibody, Unconjugated (TMAB-13063) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L-HRP and DAB staining.

12. Paraformaldehyde-fixed, paraffin embedded Human Lung; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with SOX2 Monoclonal Antibody, Unconjugated (TMAB-13063) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L-HRP and DAB staining.

13. Paraformaldehyde-fixed, paraffin embedded Mouse Stomach; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with SOX2 Monoclonal Antibody, Unconjugated (TMAB-13063) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L-HRP and DAB staining.

14. Paraformaldehyde-fixed, paraffin embedded Rat Stomach; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with SOX2 Monoclonal Antibody, Unconjugated (TMAB-13063) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L-HRP and DAB staining.

15. Paraformaldehyde-fixed, paraffin embedded Rat Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with SOX2 Monoclonal Antibody, Unconjugated (TMAB-13063) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Red, Goat Anti-Rabbit IgG H&L-BF594), DAPI (blue) was used to stain the cell nuclei.

16. Paraformaldehyde-fixed, paraffin embedded Mouse Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with SOX2 Monoclonal Antibody, Unconjugated (TMAB-13063) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Red, Goat Anti-Rabbit IgG H&L-BF594), DAPI (blue) was used to stain the cell nuclei.

17. Paraformaldehyde-fixed, paraffin embedded Human Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with SOX2 Monoclonal Antibody, Unconjugated (TMAB-13063) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Red, Goat Anti-Rabbit IgG H&L-BF594), DAPI (blue) was used to stain the cell nuclei.

18. 4% Paraformaldehyde-fixed NCCIT (H) cell; Triton X-100 at r. T. for 20 min; Antibody incubation with (SOX2) monoclonal Antibody, unconjugated (TMAB-13063) 1: 100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, BF488) at 37°C for 90 min, DAPI (blue) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.

Application: WB,IHC-P,IF,IHC-F,ICC/IF,FCM

Recommended WB=1:1000-5000,IHC-P=1:200-800,IF=1:200-800,IHC-F=1:200-800,ICC/IF=1:50-200,FCM=1:50-

A DRUG SCREENING EXPERT

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Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human SOX2

Antigen Species: Human

Gene ID: 6657

Uniprot ID: P48431

Research 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].

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