

## Anti-SOX4 Polyclonal Antibody

### Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Chicken)
Molecular Weight:	Theoretical: 52 kDa. Actual: 46 kDa.
Purification:	Protein A purified

### Applications

1. Paraformaldehyde-fixed, paraffin embedded (human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (SOX4) Polyclonal Antibody, Unconjugated (TMAB-01759) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
2. Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (SOX4) Polyclonal Antibody, Unconjugated (TMAB-01759) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
3. Paraformaldehyde-fixed, paraffin embedded (human breast carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (SOX4) Polyclonal Antibody, Unconjugated (TMAB-01759) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
4. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (SOX4) Polyclonal Antibody, Unconjugated (TMAB-01759) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
5. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (SOX4) Polyclonal Antibody, Unconjugated (TMAB-01759) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
6. Sample:
  - Testis (Mouse) Lysate at 40 µg
  - Cerebrum (Mouse) Lysate at 40 µg
  - Primary: Anti-SOX4 (TMAB-01759) at 1/500 dilution
  - Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
  - Predicted band size: 52 kDa
  - Observed band size: 52 kDa
7. Blank control: Molt4. Primary Antibody (green line): Rabbit Anti-SOX4 antibody (TMAB-01759)
  - Dilution: 2 µg/10<sup>6</sup> cells;
  - Isotype Control Antibody (orange line): Rabbit IgG.

Verified Activity:

Secondary Antibody: Goat anti-rabbit IgG-APC

Dilution: 1 µg/test.

Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.

8. Sample:

Lane 1: Mouse Heart tissue lysates

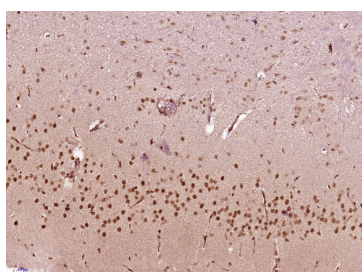
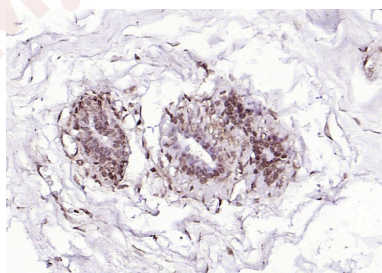
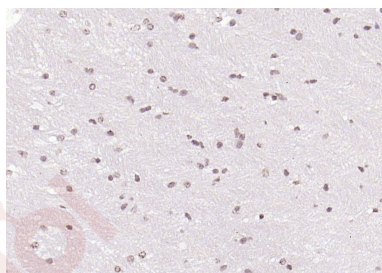
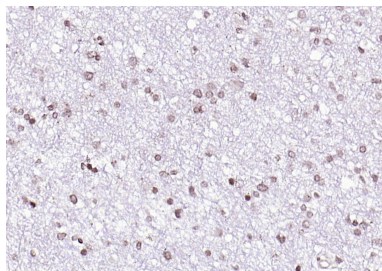
Lane 2: Human 293T cell lysates

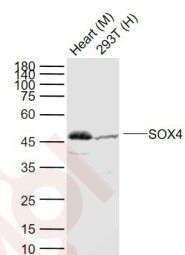
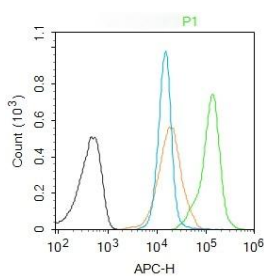
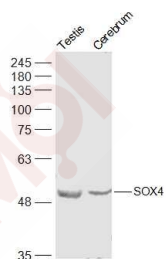
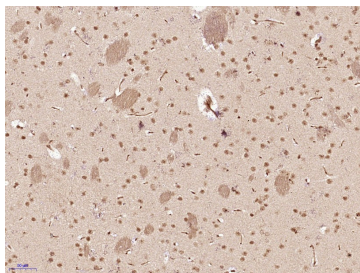
Primary: Anti-SOX4 (TMAB-01759) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 52 kDa

Observed band size: 46 kDa





Application: FCM,IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 2ug/Test

### Properties

Stability & Storage: 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 SOX4

Antigen Species: Human

Gene ID: 6659

Uniprot ID: Q06945

Synonyms: SRY(sex determining region Y) box 4;EVI 16;SRY box containing gene 4;SRY related HMG box gene 4;SOX 4;EVI16;Ecotropic viral integration site 16

Biology Area: Developmental Families,HMG Box,Neural Stem Cell marker,Neural Signal Transduction, Intracellular

### Research Background

Sox genes comprise a family of genes that are related to the mammalian sex determining gene SRY. These genes similarly contain sequences that encode for the HMG-box domain, which is responsible for the sequence-specific DNA-binding activity. Sox genes encode putative transcriptional regulators implicated in the decision of cell fates during development and the control of diverse developmental processes. The highly complex group of Sox genes cluster at least 40 different loci that rapidly diverged in various animal lineages. At present, 30 Sox genes have been identified. Members of this family have been shown to be conserved during evolution and to play key roles during animal development. Some are involved in human diseases, including sex reversal.

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