

## Anti-SOX-2 Polyclonal Antibody

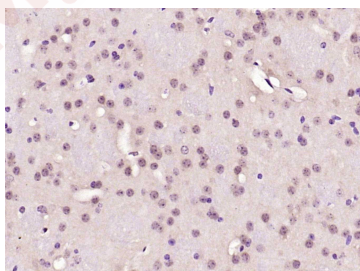
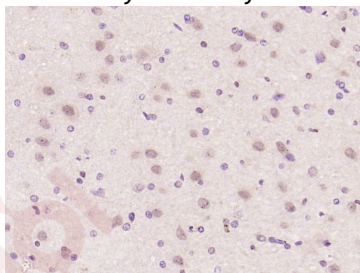
### Product Details

Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human,Chicken,Dog,Cow,Horse,Sheep)
Molecular Weight:	Theoretical: 34 kDa.
Purification:	Protein A purified

### Applications

#### Verified Activity:

1. Paraformaldehyde-fixed, paraffin embedded Rat Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with SOX2 Polyclonal Antibody, Unconjugated (TMAB-01758) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
2. Paraformaldehyde-fixed, paraffin embedded Mouse Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with SOX2 Polyclonal Antibody, Unconjugated (TMAB-01758) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.



Application:	IF,IHC-Fr,IHC-P
Recommended	IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

### 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 SOX2
Antigen Species:	Human
Gene ID:	6657
Uniprot ID:	P48431
Synonyms:	SOX2;Transcription factor SOX-2
Biology Area:	Surface molecules,Germ cell markers,Leucine Zipper,HMG Box,Neural Stem Cell marker,Neural Signal Transduction,Neurogenesis,Intracellular,Embryonic Germ Cells

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### 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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