

bs-0523R**[Primary Antibody]****SOX2 Rabbit pAb****BioSS**
ANTIBODIES

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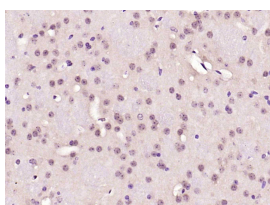
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techsupport@bioss.com.cn

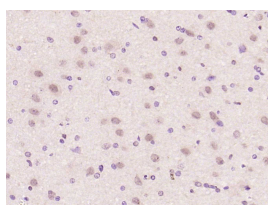
400-901-9800

— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500)
Clonality: Polyclonal		
GeneID: 6657	SWISS: P48431	
Target: SOX2		Reactivity: Mouse, Rat (predicted: Human, Sheep, Cow, Chicken, Dog, Horse)
Immunogen: KLH conjugated synthetic peptide derived from human SOX2: 227-317/317.		
Purification: affinity purified by Protein A		Predicted MW.: 34 kDa
Concentration: 1mg/ml		Subcellular Location: Nucleus
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
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].		

— VALIDATION IMAGES —

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 (bs-0523R) at 1:200
overnight at 4°C, followed by conjugation to the
bs-0295G-HRP and DAB (C-0010) staining.



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 (bs-0523R) at 1:200 overnight at
4°C, followed by conjugation to the bs-0295G-
HRP and DAB (C-0010) staining.

— SELECTED CITATIONS —

- **[IF=13.6]** Xiangfeng Yao. et al. Expanding the insight of ecological risk on the novel chiral pesticide mefentrifluconazole: Mechanism of enantioselective toxicity to earthworms (*Eisenia fetida*). J HAZARD MATER. 2024 Mar;466:133585 WB ;Earthworm. 38271877
- **[IF=10.7]** Zitong Zhao. et al. CircMALAT1 promotes cancer stem-like properties and chemoresistance via regulating Musashi-2/c-Myc axis in esophageal squamous cell carcinoma. MedComm. 2024 Jun;5(6):e612 WB ;Human. 38881674
- **[IF=8.469]** Que, Tianshi. et al. HMG1 stimulates MYH9-dependent ubiquitination of GSK-3 β via PI3K/Akt/c-Jun signaling to promote malignant progression and chemoresistance in gliomas. Cell Death Dis. 2021 Dec;12(12):1-12 WB ;Human. 34887392

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=6.217]** Wang L et al. Zoledronic acid inhibits the growth of cancer stem cell derived from cervical cancer cell by attenuating their stemness phenotype and inducing apoptosis and cell cycle arrest through the Erk1/2 and Akt pathways. J Exp Clin Cancer Res. 2019 Feb 21;38(1):93. IF, WB ; Human. 30791957
- **[IF=5.23]** Ma, Fanglin, et al. "Lin28a promotes self-renewal and proliferation of dairy goat spermatogonial stem cells (SSCs) through regulation of mTOR and PI3K/AKT." Scientific Reports 6 (2016): 38805. ICC ;="Goat". 27941834