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## SOX4 Rabbit pAb

Catalog Number: bs-11208R

Target Protein: SOX4

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: **WB** (1:500-2000), **IHC-P** (1:100-500), **IHC-F** (1:100-500), **IF** (1:100-500), **Flow-Cyt** (2ug/Test)

Reactivity: Human, Mouse, Rat (predicted:&nbsp;Chicken)

Predicted MW: 52 kDa

Subcellular Nucleus

Locations:

Entrez Gene: 6659

Swiss Prot: Q06945

Source: KLH conjugated synthetic peptide derived from human SOX4: 54-103/474.

Purification: affinity purified by Protein A

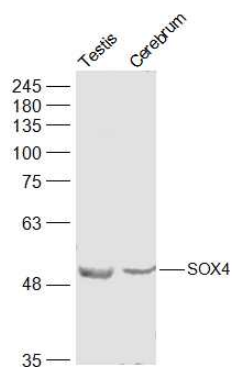
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

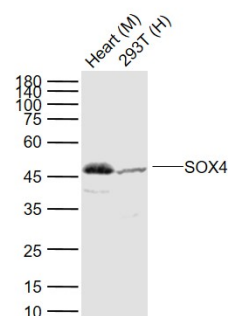
**Background:** Sox genes comprise a family of genes that are related to the mammalian sex determining gene SRY. These genes similarly contain sequences that encode for the HMG-box domain, which is responsible for the sequence-specific DNA-binding activity. Sox genes encode putative transcriptional regulators 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.

### VALIDATION IMAGES

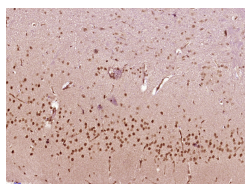
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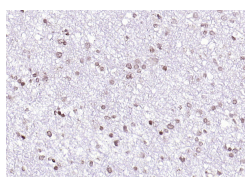
Sample: Testis (Mouse) Lysate at 40 ug Cerebrum (Mouse) Lysate at 40 ug Primary: Anti-SOX4 (bs-11208R) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 52 kD Observed band size: 52 kD



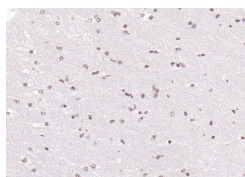
Sample: Lane 1: Mouse Heart tissue lysates Lane 2: Human 293T cell lysates Primary: Anti-SOX4 (bs-11208R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 52 kDa Observed band size: 46 kDa



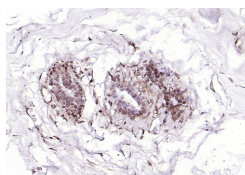
Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SOX4) Polyclonal Antibody, Unconjugated (bs-11208R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human brain glioma); 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 30min; Antibody incubation with (SOX4) Polyclonal Antibody, Unconjugated (bs-11208R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



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 30min; Antibody incubation with (SOX4) Polyclonal Antibody, Unconjugated (bs-11208R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human breast carcinoma); 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 30min; Antibody incubation with (SOX4) Polyclonal Antibody, Unconjugated (bs-11208R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

## PRODUCT SPECIFIC PUBLICATIONS

**[IF=5.201]** Jingxuan Li. et al. Long Non-coding RNA H19 Regulates Porcine Satellite Cell Differentiation Through miR-140-5p/SOX4 and DBN1. Front Cell Dev Biol. 2020; 8: 518724 WB ; Fig . 33324629

**[IF=4.599]** Juan Tan. et al. Circ\_0124644 Serves as a ceRNA for miR-590-3p to Promote Hypoxia-Induced Cardiomyocytes Injury via

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

Regulating SOX4. Front Genet. 2021; 12: 667724 WB ; Human . 34249089

**[IF=4.8]** Yanmiao Ma. et al.Cornua cervi degelatinatum inhibits breast cancer stem-like cell properties and metastasis via miR-148a-3p-mediated TGF- $\beta$ /Smad2 pathway...JOURNAL OF ETHNOPHARMACOLOGY.2025 Mar 27;346:119709. Western blot,IHC ; Human . 40157402

**[IF=4.8]** Yanmiao Ma. et al.Cornua cervi degelatinatum inhibits breast cancer stem-like cell properties and metastasis via miR-148a-3p-mediated TGF- $\beta$ /Smad2 pathway...JOURNAL OF ETHNOPHARMACOLOGY.2025 Mar 27;346:119709. Western blot,IF ; Human . 40157402

**[IF=2.8]** Mengxin Hu. et al. Establishment and characterization of cisplatin-resistant cell lines from canine mammary gland tumors. THERIOGENOLOGY. 2024 Mar;217:103 WB ; Dog . 10.1016/j.theriogenology.2024.01.017