

bs-10725R**[Primary Antibody]****SOX9 Rabbit pAb**

Bioss
ANTIBODIES

www.bioss.com.cn

sales@bioss.com.cn

techsupport@bioss.com.cn

400-901-9800

— DATASHEET —**Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 6662**Target:** SOX9**Immunogen:** KLH conjugated synthetic peptide derived from human SOX9: 351-450/509.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**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.

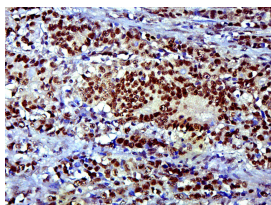
Background: May be involved in chondrogenesis (cartilage development) during bone formation. Unlikely to play a role in sex determination but may function during testicular and ovarian differentiation (By similarity). Transcriptional activator. Acts early in neural crest formation, functioning redundantly with the other group E Sox factors sox8 and sox10 to induce neural crest progenitors. Induces sox10 expression downstream of wnt-signaling. Principally involved in development of the cranial neural crest, which is fated to form skeletal elements. Also required for otic placode specification during inner ear development.

Applications: IHC-P (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (1ug/test)

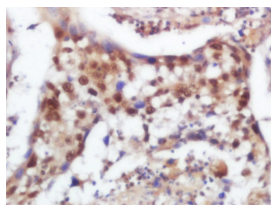
Reactivity: Human, Mouse, Rat
(predicted: Rabbit, Pig, Horse)

Predicted
MW.: 56 kDa

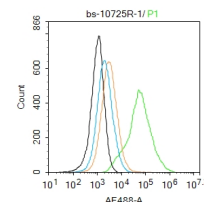
Subcellular
Location: Cytoplasm ,Nucleus

— VALIDATION IMAGES —

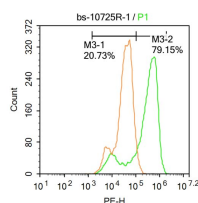
Paraformaldehyde-fixed, paraffin embedded (Human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SOX9) Polyclonal Antibody, Unconjugated (bs-10725R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: human laryngocarcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-SOX9 Polyclonal Antibody, Unconjugated(bs-10725R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control:293T. Primary Antibody (green line): Rabbit Anti-SOX9 antibody (bs-10725R) Dilution: 1μg /10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF488 Dilution: 1μg /test. Protocol The cells were fixed with 4% PFA (10min 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. Acquisition of 20,000 events was performed.



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

Blank control:A431. Primary Antibody (green line): Rabbit Anti-SOX9 antibody (bs-10725R) Dilution: 1µg /10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF647 Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min 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 at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=16.6]** Zhao Chengkun. et al. Molecular co-assembled strategy tuning protein conformation for cartilage regeneration. NAT COMMUN. 2024 Feb;15(1):1-14 IF ;Rabbit. 38374253
- **[IF=15.1]** Zhao Zhang. et al. Lubricating MXenzyme-based hybrid hydrogel reverses oxidative damage to alleviate osteoarthritis. CHEM ENG J. 2024 Feb;482:148815 WB ;Rat. 10.1016/j.cej.2024.148815
- **[IF=14.224]** Wenqing Xu. et al. Oral exposure to polystyrene nanoplastics reduced male fertility and even caused male infertility by inducing testicular and sperm toxicities in mice. J HAZARD MATER. 2023 Jul;454:131470 IF ;Mouse. 37116333
- **[IF=13.3]** Han Yin. et al. Chondrocyte-derived apoptotic vesicles enhance stem cell biological function for the treatment of cartilage injury. CHEM ENG J. 2024 Aug;:154501 IF ;Rat. 10.1016/j.cej.2024.154501
- **[IF=9.5]** Cancan Du. et al. Ultrasound-Controlled Delivery of Growth Factor-Loaded Cerasomes Combined with Polycaprolactone Scaffolds Seeded with Bone Marrow Mesenchymal Stem Cells for Biomimetic Tendon-to-Bone Interface Engineering. ACS APPL MATER INTER. 2023;XXXX(XXX):XXX-XXX IF ;Rabbit. 38133932