

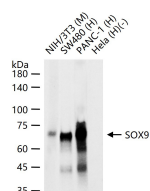
bsm-63031R**[Primary Antibody]****Bioss**
ANTIBODIES

www.bioss.com.cn

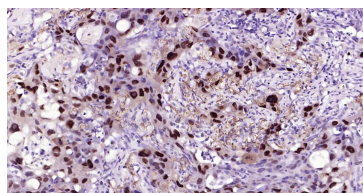
sales@bioss.com.cn

techsupport@bioss.com.cn

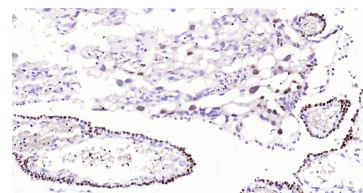
400-901-9800

SOX9 Recombinant Rabbit mAb**DATASHEET****Host:** Rabbit**Clonality:** Recombinant**GeneID:** 6662**Target:** SOX9**Immunogen:** A synthesized peptide derived from human SOX9: 150-300/509.**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.**Isotype:** IgG**CloneNo.:** 12H7**Applications:** **WB** (1:1000-5000)
IHC-P (1:200-1000)
IHC-F (1:200-1000)
IF (1:200-1000)
Flow-Cyt (1:50-100)
ICC/IF (1:50-200)**Reactivity:** Human, Mouse, Rat**Predicted MW.:** 56 kDa**Observed MW.:** 70 kDa**Subcellular Location:** Cytoplasm ,Nucleus**VALIDATION IMAGES**

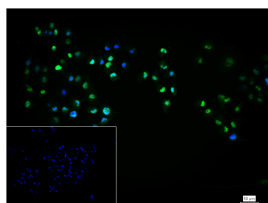
25 ug total protein per lane of various lysates (see on figure) probed with SOX9 monoclonal antibody, unconjugated (bsm-63031R) at 1:2000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



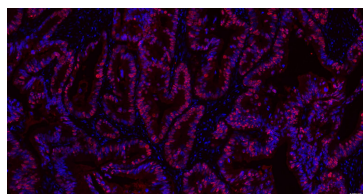
Paraformaldehyde-fixed, paraffin embedded Human Lung Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with SOX9 Monoclonal Antibody, Unconjugated (bsm-63031R) at 1:400 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



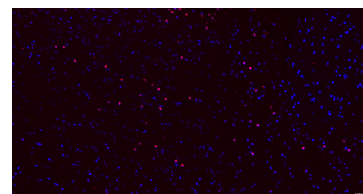
Paraformaldehyde-fixed, paraffin embedded Rat Placenta; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with SOX9 Monoclonal Antibody, Unconjugated (bsm-63031R) at 1:400 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



4% Paraformaldehyde-fixed PANC-1 (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (SOX9) monoclonal Antibody, unconjugated (bsm-63031R) 1:100, 90 min at 37°C; followed by BF488 conjugated Goat Anti-Rabbit IgG antibody (green, bs-60295G-BF488) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.

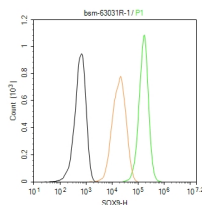


Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with SOX9 Monoclonal Antibody, Unconjugated (bsm-63031R) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Red, bs-0295G-BF594), DAPI (blue, C02-04002) was used to stain the cell nuclei.



Paraformaldehyde-fixed, paraffin embedded Mouse Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with SOX9 Monoclonal Antibody, Unconjugated (bsm-63031R) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Red, bs-0295G-BF594), DAPI (blue, C02-04002) was used to stain the cell nuclei.

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



The PANC-1 (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, the cells then were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.), followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green):Rabbit Anti-SOX9 antibody (bsm-63031R,1:100); Isotype Control (orange): Rabbit IgG (bs-0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=19.8]** Sun Yushuang. et al. SPT6 maintains epidermal homeostasis by inhibiting an NF-κB-positive feedback loop to prevent excessive inflammation. CELL MOL IMMUNOL. 2026 Apr;:1-20 IF ;Mouse. 41922599
- **[IF=14.1]** Zhi-jun Zhan. et al. Single-Cell Transcriptomics Reveals ITGA2-Mediated Metabolic Reprogramming and Immune Crosstalk in Pediatric Thyroid Carcinogenesis. ADV SCI. 2025 Sep;:e04088 IHC ;Human. 40985182
- **[IF=9.6]** Wenhui Hu. et al. Regulation of Inflammatory and Metabolic Microenvironment With a D-Mannose Functionalized Hydrogel for Improved Osteochondral Regeneration. ADV HEALTHC MATER. 2025 Nov;:e03687 WB ;Rat. 41273165
- **[IF=7.3]** Wei Donglei. et al. Carnosic acid serves as a dual Nrf2 activator and PTEN/AKT suppressor to inhibit traumatic heterotopic ossification. STEM CELL RES THER. 2025 Dec;: WB,IF ;Mouse. 41462373