

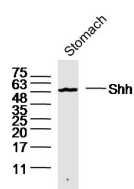
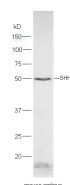
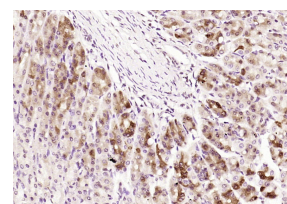
**bs-1544R****[ Primary Antibody ]****Shh Rabbit pAb****Bioss**  
**ANTIBODIES**

www.bioss.com.cn

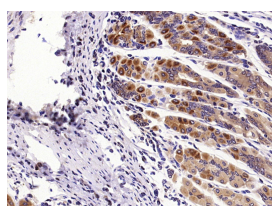
sales@bioss.com.cn

techsupport@bioss.com.cn

400-901-9800

**— DATASHEET —****Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 6469**SWISS:** Q15465**Target:** Shh**Immunogen:** KLH conjugated synthetic peptide derived from human Shh: 21-120/462.**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:** SHH binds to the patched (PTC) receptor, which functions in association with smoothened (SMO), to activate the transcription of target genes. In the absence of SHH, PTC represses the constitutive signaling activity of SMO. Also regulates another target, the gli oncogene. Intercellular signal essential for a variety of patterning events during development: signal produced by the notochord that induces ventral cell fate in the neural tube and somites, and the polarizing signal for patterning of the anterior-posterior axis of the developing limb bud. Displays both floor plate- and motor neuron-inducing activity. The threshold concentration of N-product required for motor neuron induction is 5-fold lower than that required for floor plate induction (By similarity).**Applications:** **WB** (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Reactivity:** Human, Mouse, Rat  
(predicted: Rabbit, Cow, Chicken, Horse)**Predicted MW.:** 19/47 kDa**Subcellular Location:** Secreted ,Extracellular  
matrix ,Cell membrane**— VALIDATION IMAGES —**Sample: Stomach (Mouse) Lysate at 40 ug  
Primary: Anti-Shh(bs-1544R) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 19/47kD  
Observed band size: 49 kDSample: Embryo(Mouse) tissue at 30ug; Primary:  
Anti-Shh (bs-1544R) at 1:300 dilution; Secondary:  
HRP conjugated Goat Anti-Rabbit IgG(bs-0295G-HRP) at 1: 5000 dilution; Predicted band size :  
19/47kD Observed band size : 50kD

Paraformaldehyde-fixed, paraffin embedded (rat stomach); 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 (Shh) Polyclonal Antibody, Unconjugated (bs-1544R) 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

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

(Mouse stomach); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (Shh) Polyclonal Antibody, Unconjugated (bs-1544R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP) and DAB staining.

---

## — SELECTED CITATIONS —

- **[IF=8.98]** Weiss, Robert M., et al. "Brg1 Determines Urothelial Cell Fate during Ureter Development." Journal of the American Society of Nephrology: JASN (2013). Other ;="". 23449535
- **[IF=8.718]** Chao Sun. et al. WISP-1 induced by mechanical stress contributes to fibrosis and hypertrophy of the ligamentum flavum through Hedgehog-Gli1 signaling. Exp Mol Med. 2021 Jun;53(6):1068-1079 WB ;Human. 34158608
- **[IF=5.682]** Qi, Yan. et al. Neuroprotective Effect of Sonic Hedgehog Mediated PI3K/AKT Pathway in Amyotrophic Lateral Sclerosis Model Mice. MOL NEUROBIOL. 2022 Sep;:1-12 WB ;Mouse. 36056982
- **[IF=4.7]** Lili Lu. et al. Hypoxia-inducible factor-1 alpha (HIF-1 $\alpha$ ) inhibitor AMSP-30 m attenuates CCl<sub>4</sub>-induced liver fibrosis in mice by inhibiting the sonic hedgehog pathway..CHEMICO-BIOLOGICAL INTERACTIONS.2025 Mar 18;413:111480. Western blot ;Mouse. 40113123
- **[IF=4.56]** Wang, H., et al. "Baicalin Attenuates Alcoholic Liver Injury through Modulation of Hepatic Oxidative Stress, Inflammation and Sonic Hedgehog Pathway in Rats." Cellular Physiology and Biochemistry 39.3 (2016): 1129-1140. WB ;="Rat". 27576501