bs-11564R **[Primary Antibody]**

Gli2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2736 **SWISS:** P10070

Target: Gli2

Immunogen: KLH conjugated synthetic peptide derived from human Gli2: 501-600/1586.

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: It has long been known that the overexpression of either Wnt-1 or the GLI proteins results in cancer; however, the molecular basis for this transformation was poorly understood. The Wnt-1 and GLI proteins have now been placed in a signaling cascade downstream of the mammalian homologs of the Drosophila hedgehog and patched proteins. The Drosophila segment polarity gene hedgehog (hh) encodes a secreted protein that appears to function in embryonic and imaginal disc patterning. The ptc gene, also identified as a Drosophila segment polarity gene, encodes the transmembrane protein patched, the expression of which is precisely regulated during embryonic development. Hedgehog has been shown to enhance the expression of the Wnt family of proteins through a signaling cascade involving the GLI transcription factors, while patched functions as a repressor opposing the effects of hedgehog. Mutations in the ptc gene, which result in unregulated hedgehog signaling, have been correlated with the most common type of cancer, basal cell carcinoma, which affects 750,000 individuals annually in the United States alone.

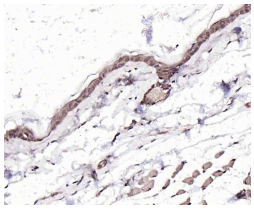
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

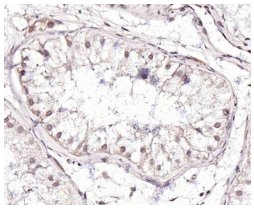
Predicted MW.: 168 kDa

Subcellular Location: Cytoplasm ,Nucleus

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (mouse skin); 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; Incubation with (Gli2 Rabbit pAb) Polyclonal Antibody, Unconjugated (bs-11564R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human testis); 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; Incubation with (Gli2 Rabbit pAb) Polyclonal Antibody, Unconjugated (bs-11564R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=11.556]** Chao Tang. et al. Hedgehog signaling is controlled by Rac1 activity. Theranostics. 2022; 12(3): 1303–1320

WB,IP ;Mouse. 35154488

- **[IF=11.4]** Chao Tang. et al. GPR137-RAB8A activation promotes ovarian cancer development via the Hedgehog pathwayJ EXP CLIN CANC RES. 2025 Jan 24;44(1):22. IHC ;Human. 39856733
- **[IF=3.73]** Zhang, Qiang, et al. "Serotonin Receptor 2C and Insulin Secretion." PloS one 8.1 (2013): e54250. WB ;Mouse. 23349838
- **[IF=2.705]** Wu J et al. Nicotine inhibits murine Leydig cell differentiation and maturation via regulating Hedgehog signal pathway. Biochem Biophys Res Commun. 2019 Feb 26;510(1):1-7. WB ;Mouse. 30683315