



## SHHPolyclonal Antibody

E90095

- Catalog Number:** E90095
- Amount:** 100ul
- Background:** Hedgehog proteins (Hh) are secreted signaling proteins that play many roles during animal development. Aberrant Hh signaling activity can be associated with numerous birth defects and uncontrolled Hh pathway activation is linked to the development of several types of cancers (1-2). The three identified vertebrate Hh genes are Sonic (Shh), Indian (Ihh) and Desert (Dhh), all of which have distinct as well as overlapping roles (3-5). Hh proteins are synthesized as 45 kDa precursors that undergo auto-cleavage to generate a 19 kDa amino-terminal peptide (Hh-N) and a carboxy-terminal peptide (Hh-C). The amino-terminal peptide becomes covalently attached to a cholesterol molecule at its carboxy terminus and acetylated at its amino terminus. This doubly modified Hh-N peptide is released from cells and responsible for all known Hedgehog signaling activity (6).
- Species:** Rabbit
- Isotype:** IgG
- Storage/Stability:** Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
- Synonyms:** SHH;HHG1;HLP3;HPE3;MCOPCB5;SMMCI;TPT;TPTPS
- Immunogen:** A synthetic peptide of human SHH
- Purification:** Affinity purification
- Reactivity:** H M R
- Applications:** WB IF
- Molecular Weight:** 50kDa
- Swiss-Prot No. :** Q15465
- Gene ID:** 6469
- References:** 1. Ingham, P.W. and McMahon, A.P. (2001) *Genes Dev.* 15, 3059-3087. 2. McMahon, A.P. et al. (2003) *Curr. Top Dev. Biol.* 53, 1-114. 3. Zhang, X.M. et al. (2001) *Cell* 106, 781-792. 4. Adolphe, C. et al. (2004) *Development* 131, 5009-5019. 5. Pathi, S. et al. (2001) *Mech. Dev.* 106, 107-117. 6. Bijlsma, M.F. et al. (2004) *Bioessays* 26, 387-394.

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