

# Product Datasheet

## Sonic Hedgehog/Shh Antibody (5H4) NBP2-22126

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP2-22126****Sonic Hedgehog/Shh Antibody (5H4)**

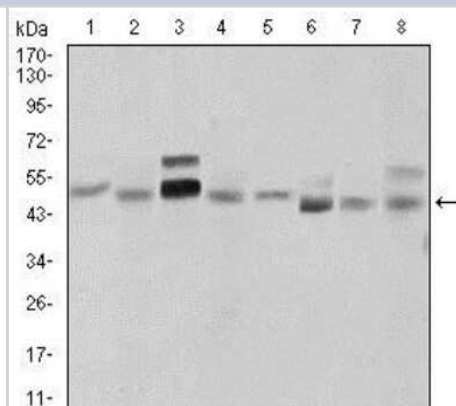
| <b>Product Information</b>     |  |
|--------------------------------|--|
| <b>Unit Size</b>               | 0.1 ml   |
| <b>Concentration</b>           | This product is unpurified. The exact concentration of antibody is not quantifiable.   |
| <b>Storage</b>                 | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| <b>Clonality</b>               | Monoclonal   |
| <b>Clone</b>                   | 5H4  |
| <b>Preservative</b>            | 0.03% Sodium Azide   |
| <b>Isotype</b>                 | IgG1   |
| <b>Purity</b>                  | Unpurified   |
| <b>Buffer</b>                  | Ascites  |
| <b>Target Molecular Weight</b> | 49.6 kDa   |

| <b>Product Description</b> |  |
|----------------------------|--|
| <b>Host</b>                | Mouse  |
| <b>Gene ID</b>             | 6469   |
| <b>Gene Symbol</b>         | SHH  |
| <b>Species</b>             | Human, Mouse, Primate  |
| <b>Immunogen</b>           | Purified recombinant fragment of human Sonic Hedgehog (amino acids 26-170) expressed in E. coli. [UniProt# Q15465] |

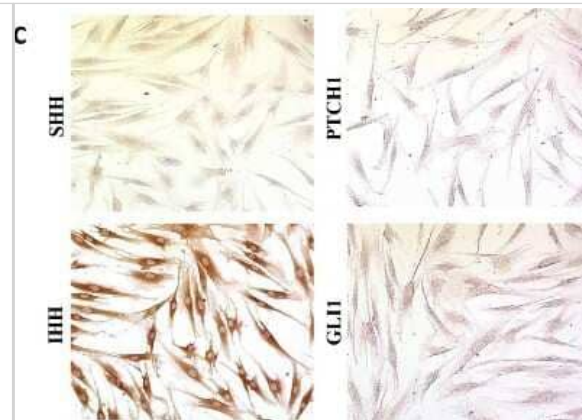
| <b>Product Application Details</b> |   |
|------------------------------------|---|
| <b>Applications</b>                | Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin   |
| <b>Recommended Dilutions</b>       | Western Blot 1:500-1:2000, Flow Cytometry 1:200-1:400, ELISA 1:10000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence reported in scientific literature (PMID 32867229), Immunohistochemistry-Paraffin 1:200-1:1000 |
| <b>Application Notes</b>           | The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.           |

**Images**

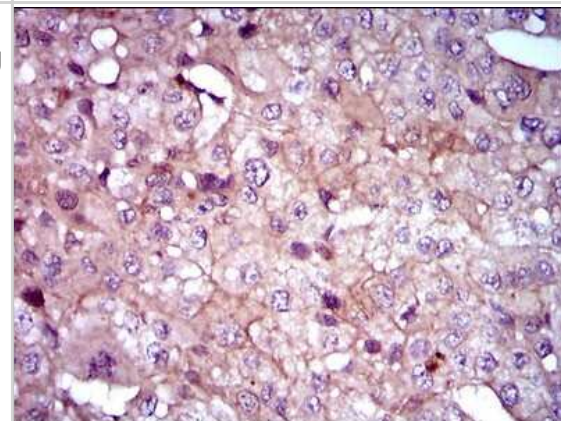
Western Blot: Sonic Hedgehog/Shh Antibody (5H4) [NBP2-22126] - Analysis using Sonic Hedgehog mouse mAb against LNCaP (1), HepG2 (2), PANC-1 (3), HeLa (4), SK-N-SH (5), F9 (6), NIH3T3 (7), and COS7 (8) cell lysate.



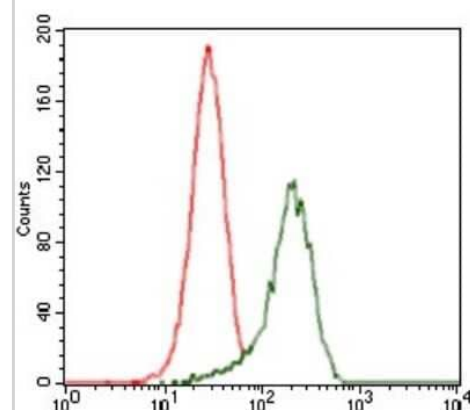
Immunocytochemistry/Immunofluorescence: Sonic Hedgehog/Shh Antibody (5H4) [NBP2-22126] - Evaluation of IGF-1, IGF1R and HH pathway expression in fibroblasts and oral squamous carcinoma cells. IGF1 mRNA expression in SCC-4 and MF1 cells, evaluated by RT-qPCR. (C) Evaluation of HH pathway component expression in MF1 by immunocytochemistry. Patched 1/PTCH Antibody (NB200-118); Sonic Hedgehog/Shh Antibody (NBP2-22126). Magnification: 400x. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32899449/>) licensed under a CC-BY license.



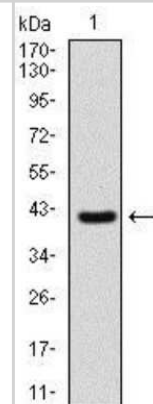
Immunohistochemistry-Paraffin: Sonic Hedgehog/Shh Antibody (5H4) [NBP2-22126] - Analysis of paraffin-embedded liver cancer tissues using Sonic Hedgehog mouse mAb with DAB staining.



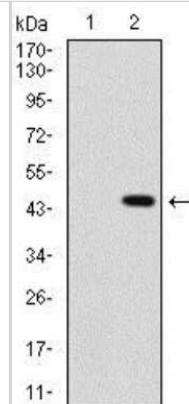
Flow Cytometry: Sonic Hedgehog/Shh Antibody (5H4) [NBP2-22126] - Analysis of HeLa cells using Sonic Hedgehog mouse mAb (green) and negative control (red).



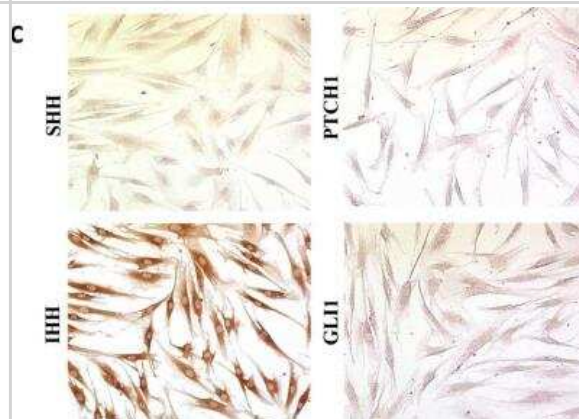
Western Blot: Sonic Hedgehog/Shh Antibody (5H4) [NBP2-22126] - Analysis using Sonic Hedgehog mAb against human Sonic Hedgehog recombinant protein. (Expected MW is 41 kDa)



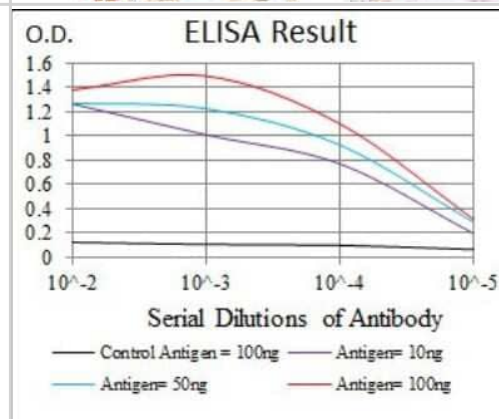
Western Blot: Sonic Hedgehog/Shh Antibody (5H4) [NBP2-22126] - Analysis using Sonic Hedgehog mAb against HEK293 (1) and Sonic Hedgehog (AA: 26-161)-hlgGfc transfected HEK293 (2) cell lysate.



Immunocytochemistry/Immunofluorescence: Sonic Hedgehog/Shh Antibody (5H4) [NBP2-22126] - Evaluation of HH pathway component expression in MF1 by immunocytochemistry. Magnification: 400x. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32899449/>) licensed under a CC-BY license.



ELISA: Sonic Hedgehog/Shh Antibody (5H4) [NBP2-22126] - Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng).



## Publications

Ferreira Mendes, J M, de Faro Valverde, L Et al. Effects of IGF-1 on Proliferation, Angiogenesis, Tumor Stem Cell Populations and Activation of AKT and Hedgehog Pathways in Oral Squamous Cell Carcinoma. *Int J Mol Sci* 2020-09-05 [PMID: 32899449] (WB, Human)

Bacelar Sacramento de AraUjo T, de Oliveira Siquara da Rocha L, Torres Andion Vidal M et al. GANT61 Reduces Hedgehog Molecule (GLI1) Expression and Promotes Apoptosis in Metastatic Oral Squamous Cell Carcinoma Cells *International journal of molecular sciences* 2020-08-24 [PMID: 32846867] (WB, ICC/IF, Human)

Singh SK, Gordetsky JB, Bae S et al. Selective Targeting of the Hedgehog Signaling Pathway by PBM Nanoparticles in Docetaxel-Resistant Prostate Cancer Cells 2020-08-27 [PMID: 32867229] (IF/IHC, ICC/IF, FLOW, Human)

Vidal MT, Lourenco SV, Soares FA et al. The sonic hedgehog signaling pathway contributes to the development of salivary gland neoplasms regardless of perineural infiltration. *Tumour Biol.* 2016-01-21 [PMID: 26790448] (IHC-P, Human)

Valverde LF, Pereira TA, Dias RB et al. Macrophages and endothelial cells orchestrate tumor-associated angiogenesis in oral cancer via hedgehog pathway activation. *Tumour Biol.* 2016-01-15 [PMID: 26768620] (IHC-P, Human)

Vidal MTA Dos Santos JN. Estudo imunoistoquimico de componentes da via Sonic Hedgehog, STAT3 e MCM3 em tumores de glandula salivar. Thesis. 2015-01-01 (IHC-P, Human)





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### **Products Related to NBP2-22126**

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|                  |   |
|------------------|---|
| HAF007           | Goat anti-Mouse IgG Secondary Antibody [HRP]            |
| NB720-B          | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-97005-0.5mg | Mouse IgG1 Isotype Control (MG1)                        |
| NBP2-35265-5ug   | Recombinant Human Sonic Hedgehog/Shh Protein            |

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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