

Datasheet: AHP3012

BATCH NUMBER 155764

Description:	GOAT ANTI SHH
Specificity:	SHH
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	■			3 µg/ml - 0.5 µg/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to human SHH were raised by repeated immunizations of goats with highly purified antigen. Purified IgG was prepared by affinity chromatography.
Buffer Solution	TRIS buffered saline
Preservative Stabilisers	0.02% Sodium Azide 0.5% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Peptide with sequence C-DSEALHPLGMAVK, from the C Terminus of the protein sequence according to NP_000184.1.
Specificity	Goat anti Human SHH antibody recognizes Sonic hedgehog protein (SHH), also known

as HHG-1 and ShhNC.

SHH is the central protein in the Sonic hedgehog (Shh) signaling cascade, which regulates development of multicellular embryos. More specifically, SHH is a polarizing morphogen, inducing different cell fates at different thresholds of SHH concentration. In this way, SHH specifies the correct pattern of cell specialization along developing vertebrate limbs and the neural tube ([Choudhry et al. 2014](#)), and therefore, SHH is crucial for correct embryonic development ([Tickle and Towers 2017](#)). SHH is widely-expressed in post-embryonic tissues, and plays an important role in tissue regeneration and repair ([Choudhry et al. 2014](#)). Tight regulation of SHH is important because the protein is oncogenic, and abnormal SHH signaling is a hallmark of many cancers. Furthermore, tumorigenesis, tumor progression and therapeutic responses are all affected by the SHH signaling pathway ([Rimkus et al. 2016](#)), which is consistent with evidence that embryogenesis and tumorigenesis share common characteristics, both depending on coordinated mechanisms of proliferation, differentiation, and migration ([Carballo et al. 2018](#)). Inhibitors of SMO, a downstream target of SHH, are FDA-approved for treatment of basal cell carcinoma ([Carpenter and Ray 2019](#)).

Western Blotting	Goat anti Human SHH detects a band of approximately 48 kDa in cell lysates.
Storage	Store at -20°C only. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10058 available at: https://www.bio-rad-antibodies.com/SDS/AHP301210058
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
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Printed on 23 May 2025