

## Datasheet: AHP3012

**BATCH NUMBER 155764**

<b>Description:</b>	GOAT ANTI SHH
<b>Specificity:</b>	SHH
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
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<b>Product Form</b>	Purified IgG - liquid
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<b>Antiserum Preparation</b>	Antisera to human SHH were raised by repeated immunizations of goats with highly purified antigen. Purified IgG was prepared by affinity chromatography.
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<b>Buffer Solution</b>	TRIS buffered saline
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<b>Preservative</b>	0.02% Sodium Azide
<b>Stabilisers</b>	0.5% Bovine Serum Albumin

<b>Approx. Protein Concentrations</b>	IgG concentration 0.5 mg/ml
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<b>Immunogen</b>	Peptide with sequence C-DSEALHPLGMAVK, from the C Terminus of the protein sequence according to NP_000184.1.
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<b>Specificity</b>	<b>Goat anti Human SHH antibody</b> recognizes Sonic hedgehog protein (SHH), also known
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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](#)).

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<b>Western Blotting</b>	Goat anti Human SHH detects a band of approximately 48 kDa in cell lysates.
<b>Storage</b>	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.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10058 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP3012">https://www.bio-rad-antibodies.com/SDS/AHP3012</a> 10058
<b>Regulatory</b>	For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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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