

# ABfinity™ SHH Recombinant Rabbit Monoclonal Antibody

Store at 2°C to 8°C (short-term), or -20°C (long-term)

Catalog Number 701403

Pub. No. MAN0007678 Rev. 1.00

<b>Clonality:</b> Monoclonal	<b>Quantity:</b> 100 µg	<b>Volume:</b> 200 µL	<b>Concentration:</b> 0.5 mg/mL
<b>Host/Class:</b> Rabbit IgG	<b>Reactivity:</b> Human SHH	<b>Predicted Reactivity:</b> Human, Mouse	

## Product Description

Sonic Hedgehog (SHH) is a secreted signaling protein belonging to Hedgehog family. It plays an important role in patterning and organogenesis during embryonic development. In adult cells, SHH plays a role in control of cell division. The hedgehog signalling pathway is initiated when SHH binds the Patched receptor (PTC) resulting in release of SMO from repression. SMO acts to inhibit proteolytic cleavage of the Ci protein which acts as a transcriptional activator.

## Product Specifications

<b>Immunogen:</b>	Peptide corresponding to amino acids 173–184 of human SHH.
<b>Apparent MW:</b>	~50 kDa
<b>Gene ID:</b>	6469
<b>Protein Accession No.:</b>	Q15465
<b>Sequence Identity:</b>	Human
<b>Isotype:</b>	IgG <sub>1</sub>
<b>Lot:</b>	See product label

## Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human	HepG2 cells	2–3 µg/mL
Indirect ELISA	Human	Peptide	1.5 × 10 <sup>-4</sup> to 3 µg/mL
Immuocyto-chemistry	Human	U2OS cells	0.5 µg/mL
Flow cytometry	Human	HeLa cells	1 µg/mL for 1 × 10 <sup>-6</sup> cells

## Storage and handling

Store the antibody at 2°C to 8°C for up to 1 month, or -20°C for long storage. Avoid repeated freezing and thawing.

## Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

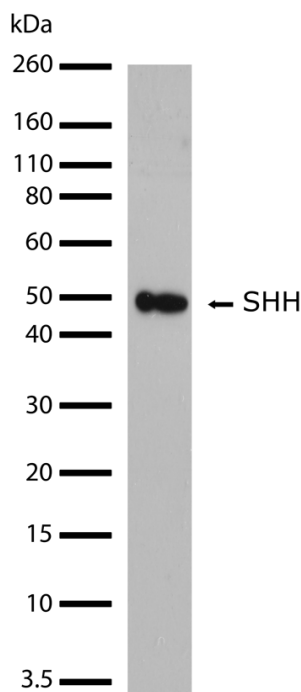


Figure 1 Western blot analysis of ABfinity™ SHH total Recombinant Rabbit Monoclonal Antibody (Cat. no. 701403).

Western blot analysis was performed on whole extracts of HepG2 lysate. Endogenous level of SHH was detected at ~50 kDa using ABfinity™ SHH total Recombinant Rabbit Monoclonal Antibody at a concentration of 2 µg/mL. The blot was developed using enhanced chemiluminescence (ECL) method.

## Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.



**CAUTION!** Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing and gloves. SDSs are available at [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support).

## Product Documentation

To obtain a Certificate of Analysis or Safety Data Sheet (SDS), visit <http://www.lifetechnologies.com/support>.

Limited product warranty

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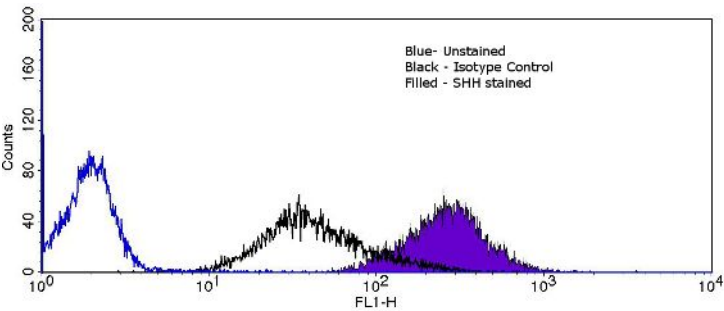


Figure 2 Flow cytometry analysis of ABfinity™ SHH total Recombinant Rabbit Monoclonal Antibody [Cat. no. 701403].

Fixed and permeabilized HeLa cells were labelled with ABfinity™ SHH total Recombinant Rabbit Monoclonal Antibody followed by Alexa Fluor® goat anti Rabbit IgG staining (right peak, filled). To confirm specificity, the cells were labeled with an isotype control and stained using Alexa Fluor® 488 goat anti-rabbit IgG (middle peak, black), unstained control cells (left peak, blue).

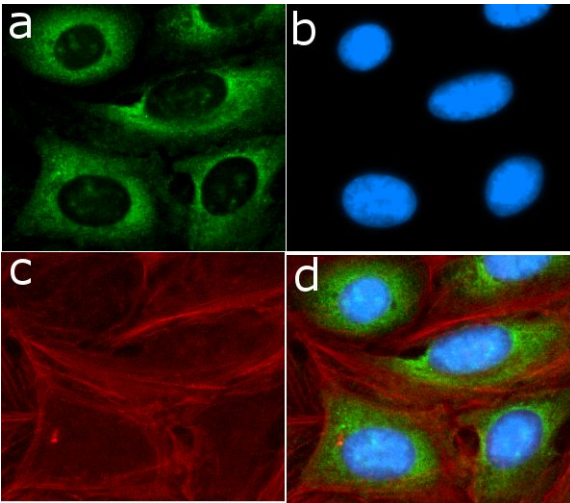


Figure 3 Immunocytochemistry analysis of ABfinity™ SHH total Recombinant Rabbit Monoclonal Antibody [Cat. no. 701403].

Immunocytochemistry analysis of U2OS cells stained with SHH ABfinity™ Recombinant Rabbit Monoclonal Antibody using a: Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). b: DAPI stained U2OS nuclei (blue). c: Actin stained with Alexa Fluor® 594 phalloidin (red). d: Composite image of cells showing cytoplasmic localization of SHH total.

Explanation of Symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

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