

## Datasheet for ABIN1049353 anti-SMO antibody (N-Term)



[Go to Product page](#)

### 2 Images

#### Overview

Quantity:	50 µg
Target:	SMO
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Dog, Monkey, Pig, Rabbit, Cow, Hamster, Horse, Bat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF), Immunocytochemistry (ICC)

#### Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 15 amino acid peptide from N-terminal extracellular domain of human SMO. Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Monkey, Marmoset, Mouse, Rat, Bovine, Dog, Bat, Hamster, Elephant, Panda, Horse, Rabbit, Pig, Platypus (100%), Opossum (93%), Turkey, Chicken, Xenopus (87%), Zebrafish, Seq squirt (80%).  Type of Immunogen: Synthetic peptide
Specificity:	Human SMO. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Purification:	Immunoaffinity purified

## Target Details

Target:	SMO
Alternative Name:	SMO / Smoothened ( <a href="#">SMO Products</a> )
Background:	Name/Gene ID: SMO Subfamily: Frizzled Family: GPCR  Synonyms: SMO, Frizzled family member 11, FZD11, Gx, Protein Gx, SMOH, Smoothened, Smoothened homolog
Gene ID:	6608
Pathways:	<a href="#">Hedgehog Signaling</a>

## Application Details

Application Notes:	Approved: ICC, IF, IHC, IHC-P (10 µg/mL), WB  Usage: Immunohistochemistry: This antibody was validated for use in immunohistochemistry on a panel of 21 formalin-fixed, paraffin-embedded (FFPE) human tissues after heat induced antigen retrieval in pH 6.0 citrate buffer. After incubation with the primary antibody, slides were incubated with biotinylated secondary antibody, followed by alkaline phosphatase-streptavidin and chromogen. The stained slides were evaluated by a pathologist to confirm staining specificity. The optimal working concentration for this antibody was determined to be 10 µg/mL.
Comment:	Target Species of Antibody: Human
Assay Procedure:	<b>The IHC-pro Immunohistochemistry Protocol</b>  <b>Tissue Preparation</b> Formalin fixation and embedding in paraffin wax  <b>Tissue Sectioning</b> Make 4-µm sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-drying oven for 45 minutes at 60°C Deparaffinization Wash slides in 3 changes of xylene – 5 minutes each at room temperature.

### Rehydration

Wash slides in 3 changes of 100% alcohol – 3 minutes each at room temperature.

Wash slides in 2 changes of 95% alcohol – 3 minutes each at room temperature.

Wash slides in 1 change of 80% alcohol – 3 minutes at room temperature.

Rinse slides in gentle running distilled water – 5 minutes at room temperature.

### Antigen retrieval

Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes

Remove from heat and let stand at room temperature in buffer - 20 minutes

Rinse in 1X TBS with Tween (TBST) – 1 minute at room temperature.

### Immunostaining

Do not allow tissues to dry at any time during the staining procedure.

Apply a universal protein block – 20 minutes at room temperature.

Drain protein block from slides, apply diluted primary antibody – 45 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply a biotinylated secondary antibody (specific to the host of the primary antibody) - 30 minutes at room temperature.

Rinse slides 1X TBST – 1 minute at room temperature.

Apply alkaline phosphatase streptavidin – 30 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply alkaline phosphatase chromogen substrate – 30 minutes at room temperature.

Wash slides in distilled water – 1 minute at room temperature.

### Dehydrate

This method should only be used if the chromogen substrate is alcohol insoluble.

Wash slides in 2 changes of 80% alcohol – 1 minute each at room temperature.

Wash slides in 2 changes of 95% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of 100% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of xylene – 1 minute each at room temperature.

Apply coverslip

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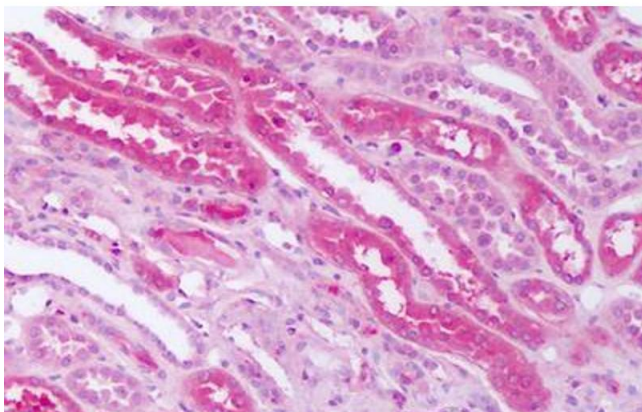
Restrictions:

For Research Use only

## Handling

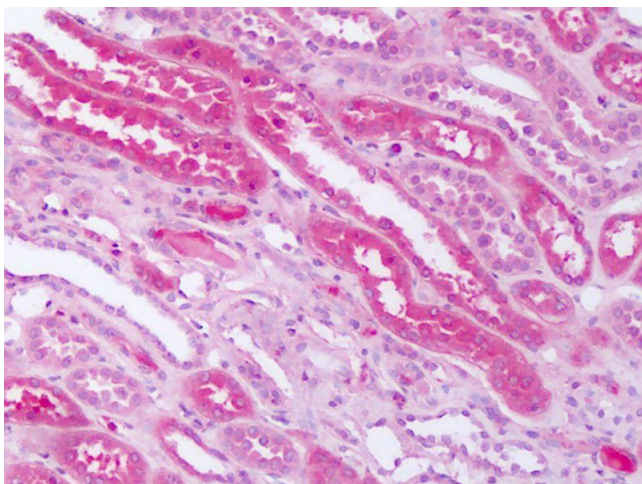
Format:	Liquid
Concentration:	Lot specific
Buffer:	PBS, less than 0.1 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze-thaw cycles.
Expiry Date:	12 months

## Images



### Immunohistochemistry

**Image 1.** Human Kidney: Formalin-Fixed Paraffin-Embedded (FFPE)



### Immunohistochemistry

**Image 2.** Human Kidney: Formalin-Fixed Paraffin-Embedded (FFPE)