



[Go to Product page](#)

Datasheet for ABIN3043230

## anti-Sonic Hedgehog antibody (N-Term)

3 Images

1 Publication

### Overview

Quantity:	100 µg
Target:	Sonic Hedgehog (SHH)
Binding Specificity:	AA 203-218, N-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

### Product Details

Purpose:	Rabbit IgG polyclonal antibody for Sonic hedgehog protein(SHH) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human Sonic Hedgehog(203-218aa ATVHLEQGGTKLVKDL), identical to the related rat and mouse sequences.
Sequence:	ATVHLEQGGT KLVKDL
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.
Characteristics:	Rabbit IgG polyclonal antibody for Sonic hedgehog protein(SHH) detection. Tested with WB,

## Product Details

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IHC-P in Human,Mouse,Rat.  
Gene Name: sonic hedgehog  
Protein Name: Sonic hedgehog protein

Purification: Immunogen affinity purified.

## Target Details

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Target: Sonic Hedgehog (SHH)

Alternative Name: SHH ([SHH Products](#))

Background: The mouse, chicken, and zebrafish Shh homologs are highly conserved. SHH expression was not detected in adult tissues examined. However, it was expressed in fetal intestine, liver, lung, and kidney. SHH gene is mapped to 7q. SHH mutations are not a frequent cause of isolated oral clefts.

Synonyms: HHG 1 antibody|HHG-1 antibody|HHG1 antibody|HLP 3 antibody|HLP3 antibody|Holoprosencephaly 3 antibody|HPE 3 antibody|HPE3 antibody|MCOPCB5 antibody|SHH antibody|SHH\_HUMAN antibody|SMMC I antibody|SMMCI antibody|Sonic Hedgehog(Drosophila) homolog antibody|sonic hedgehog homolog(Drosophila) antibody|Sonic hedgehog homolog antibody|Sonic hedgehog protein antibody|Sonic hedgehog protein C-product antibody|TPT antibody|TPTPS antibody

UniProt: [Q15465](#)

Pathways: [Hedgehog Signaling](#), [Dopaminergic Neurogenesis](#), [Regulation of Muscle Cell Differentiation](#), [Tube Formation](#), [Skeletal Muscle Fiber Development](#)

## Application Details

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Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse,  
Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.  
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.  
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.  
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

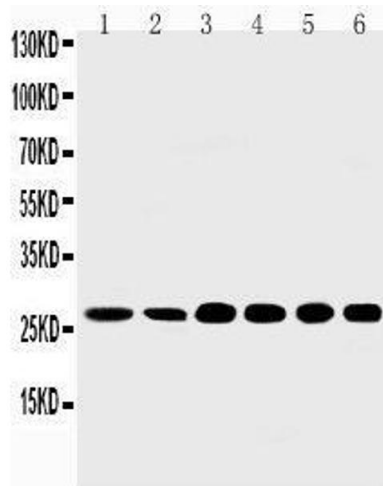
Expiry Date: 12 months

## Publications

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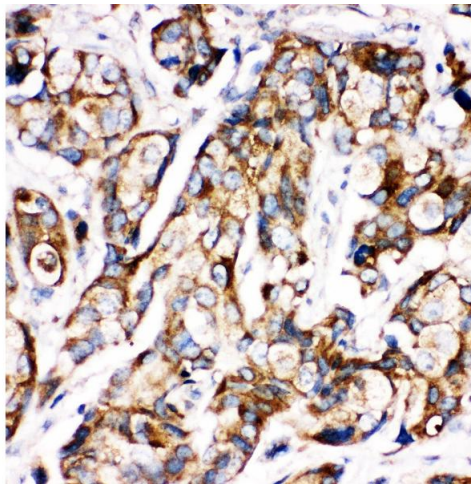
Product cited in: Liu, Hong, Li, Ren, Wang, Xu, Shi, Xu: "A Cross Talk Between BRG1 and Males Absent on the First Contributes to Reactive Oxygen Species Production in a Mouse Model of Nonalcoholic Steatohepatitis." in: **Antioxidants & redox signaling**, (2018) ([PubMed](#)).

Meyer, Fredette, Daniel, Sharma, Amann, Arterburn, Barton, Prossnitz: "Obligatory role for GPER in cardiovascular aging and disease." in: **Science signaling**, Vol. 9, Issue 452, pp. ra105, (2017) ([PubMed](#)).



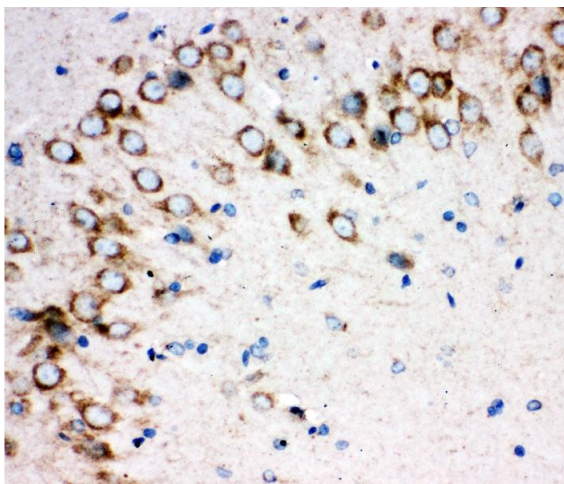
### Western Blotting

**Image 1.** Anti-Sonic Hedgehog antibody, Western blotting  
Lane 1: Rat Liver Tissue Lysate Lane 2: Rat Intestine Tissue Lysate Lane 3: HELA Cell Lysate Lane 4: A549 Cell Lysate Lane 5: SMMC Cell Lysate Lane 6: MM231 Cell Lysate



### Immunohistochemistry

**Image 2.** Anti-Sonic Hedgehog antibody, IHC(P) IHC(P):  
Human Mammary Tissue



### Immunohistochemistry

**Image 3.** Anti-Sonic Hedgehog antibody, IHC(P) IHC(P): Rat  
Brain Tissue