

Datasheet for ABIN7603011  
**anti-Patched 2 antibody (Middle Region)**



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## Overview

Quantity:	100 µg
Target:	Patched 2 (PTCH2)
Binding Specificity:	Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Patched 2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

## Product Details

Purpose:	Anti-PTCH2 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human PTCH2, identical to the related mouse sequence.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-PTCH2 Antibody Picoband® (ABIN7603011). Tested in IF, IHC, ICC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

## Product Details

Purification: Immunogen affinity purified.

## Target Details

Target: Patched 2 (PTCH2)

Alternative Name: PTCH2 ([PTCH2 Products](#))

Background: Synonyms: Rho-related GTP-binding protein Rho6, Rho family GTPase 1, Rnd1, RND1, RHO6, Tissue Specificity: Mostly expressed in brain and liver.

Background: PTCH2 (patched 2), also known as PTC2, encodes a 1.203-amino acid putative transmembrane protein that is highly homologous to the PTCH product. The Patched-hedgehog signaling pathway is involved in establishing segment polarity and the anterior-posterior orientation of a number of developing appendages. The pathway is conserved from fly to vertebrates and has been implicated in a number of human neoplasms and developmental syndromes. Mutations in the human Patched gene are the basis of the nevoid basal cell carcinoma syndrome. With age, homozygous mutant male mice developed skin lesions consisting of alopecia and epidermal hyperplasia, suggesting a role for Ptc2 in adult epidermal homeostasis via Shh signaling.

Molecular Weight: 150 kDa

Gene ID: 8643

UniProt: [Q9Y6C5](#)

Pathways: [Hedgehog Signaling](#)

## Application Details

Application Notes: Western blot, 0.25-0.5 µg/mL, Human  
Immunohistochemistry (Paraffin-embedded Section), 2-5 µg/mL, Human  
Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human

1. Nieuwenhuis, E., Motoyama, J., Barnfield, P. C., Yoshikawa, Y., Zhang, X., Mo, R., Crackower, M. A., Hui, C. Mice with a targeted mutation of Patched 2 are viable but develop alopecia and epidermal hyperplasia. Molec. Cell. Biol. 26: 6609-6622, 2006.

Restrictions: For Research Use only

## Handling

Format: Lyophilized

## Handling

Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.01 mg 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:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.