

Anti-Patched/PTCH1 Picoband Antibody
Catalog # ABO12043**Specification**

Anti-Patched/PTCH1 Picoband Antibody - Product Information

| | |
|-------------------|------------------------|
| Application | WB |
| Primary Accession | Q13635 |
| Host | Rabbit |
| Reactivity | Human, Mouse, Rat |
| Clonality | Polyclonal |
| Format | Lyophilized |

Description

Rabbit IgG polyclonal antibody for Protein patched homolog 1(PTCH1) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Patched/PTCH1 Picoband Antibody - Additional Information

Gene ID 5727

Other Names

Protein patched homolog 1, PTC, PTC1, PTCH1, PTCH

Calculated MW

160545 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Mouse, Rat, Human

Subcellular Localization

Membrane; Multi-pass membrane protein.

Tissue Specificity

In the adult, expressed in brain, lung, liver, heart, placenta, skeletal muscle, pancreas and kidney. Expressed in tumor cells but not in normal skin.

Protein Name

Protein patched homolog 1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

E.coli-derived human Patched recombinant protein (Position: D1219-N1447). Human Patched shares 91% amino acid (aa) sequence identity with mouse Patched.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins.

Storage

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.

Sequence Similarities

Belongs to the patched family.

Anti-Patched/PTCH1 Picoband Antibody - Protein Information

Name PTCH1

Synonyms PTCH

Function

Acts as a receptor for sonic hedgehog (SHH), indian hedgehog (IHH) and desert hedgehog (DHH). Associates with the smoothened protein (SMO) to transduce the hedgehog's proteins signal. Seems to have a tumor suppressor function, as inactivation of this protein is probably a necessary, if not sufficient step for tumorigenesis.

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:Q61115}; Multi-pass membrane protein

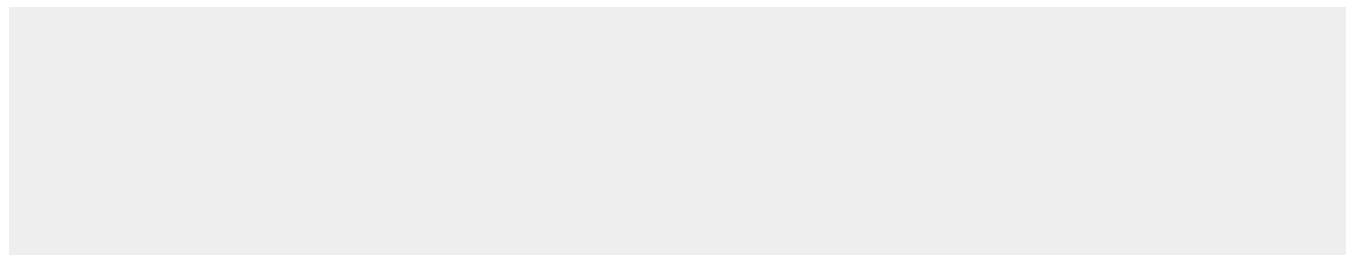
Tissue Location

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Anti-Patched/PTCH1 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Patched/PTCH1 Picoband Antibody - Images



Anti- Patched Picoband antibody, ABO12043, Western blotting
 All lanes: Anti Patched (ABO12043) at 0.5ug/ml
 Lane 1: Rat Brain Tissue Lysate at 50ug
 Lane 2: Rat Liver Tissue Lysate at 50ug
 Lane 3: Mouse Brain Tissue Lysate at 50ug
 Lane 4: Mouse Liver Tissue Lysate at 50ug
 Predicted bind size: 160KD
 Observed bind size: 160KD

Anti-Patched/PTCH1 Picoband Antibody - Background

PTCH1 is also known as PTC, BCNS or HPE7. This gene encodes a member of the patched gene family. The encoded protein is the receptor for sonic hedgehog, a secreted molecule implicated in the formation of embryonic structures and in tumorigenesis, as well as the desert hedgehog and indian hedgehog proteins. This gene functions as a tumor suppressor. Mutations of this gene have been associated with basal cell nevus syndrome, esophageal squamous cell carcinoma, trichoepitheliomas, transitional cell carcinomas of the bladder, as well as holoprosencephaly. Alternative splicing results in multiple transcript variants encoding different isoforms. Additional splice variants have been described, but their full length sequences and biological validity cannot be determined currently.