

**Goat Anti-PTCH (Internal) Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1878a****Specification**

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**Goat Anti-PTCH (Internal) Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q13635</a>
Other Accession	<a href="#">NP_000255</a> , <a href="#">5727</a>
Reactivity	Human, Mouse
Predicted	Pig, Dog, Cow
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	160545

**Goat Anti-PTCH (Internal) Antibody - Additional Information****Gene ID** 5727**Other Names**

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

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-PTCH (Internal) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-PTCH (Internal) 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**

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

**Goat Anti-PTCH (Internal) 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](#)

**Goat Anti-PTCH (Internal) Antibody - Images**

AF1878a (1 µg/ml) staining of Human Brain lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

**Goat Anti-PTCH (Internal) Antibody - Background**

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.

**Goat Anti-PTCH (Internal) Antibody - References**

Identification of known and novel PTCH mutations in both syndromic and non-syndromic keratocystic odontogenic tumors. Pan S, et al. Int J Oral Sci, 2009 Mar. PMID 20690502.

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The role of height-associated loci identified in genome wide association studies in the determination of pediatric stature. Zhao J, et al. BMC Med Genet, 2010 Jun 14. PMID 20546612.