

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

Specification

Goat Anti-PTCH (Internal) Antibody - Product Information

Application	WB
Primary Accession	Q13635
Other Accession	NP_000255 , 5727
Reactivity	Human, Mouse
Predicted	Pig, Dog
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 smoothed 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 μ g/ml) staining of Human Brain lysate (35 μ g 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.

Maternal genes and facial clefts in offspring: a comprehensive search for genetic associations in two population-based cleft studies from Scandinavia. Jugessur A, et al. PLoS One, 2010 Jul 9. PMID 20634891.

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

Follow-up association studies of chromosome region 9q and nonsyndromic cleft lip/palate. Letra A, et al. Am J Med Genet A, 2010 Jul. PMID 20583170.

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.