



## Rabbit Anti-Patched antibody

SL21337R

<b>Product Name:</b>	Patched
<b>Chinese Name:</b>	Patched/PTCH抗体
<b>Alias:</b>	Protein patched homolog 1; PTCH; PTC1; A230106A15Rik; BCNS; FLJ26746; FLJ42602; Holoprosencephaly 7; HPE7; mes; NBCCS; OTTHUMP00000021709; OTTHUMP00000021710; Patched; Patched (Drosophila) homolog; Patched 1; Patched homolog (Drosophila); Patched homolog 1 (Drosophila); Patched homolog 1; Patched protein homolog 1; PTC; PTC1; PTCH; PTCH protein +12b; PTCH protein +4'; PTCH protein -10; PTCH protein; PTCH1; PTCH1 protein; PTCH11; Ptc2; ; Patched / PTCH; PTC1 HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Sheep,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	161kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Patched:1351-1447/1447<Cytoplasmic>
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>

PTCH (Patched protein homolog 1) is a receptor for sonic hedgehog (SHH), indian hedgehog (IHH) and desert hedgehog (DHH). PTCH associates with the smoothed protein (SMO) to transduce the hedgehog's proteins signal. PTCH has a tumor suppressor function, as inactivation of this protein is probably a necessary, if not sufficient step for tumorigenesis. PTCH is expressed in the adult brain, lung, liver, heart, placenta, skeletal muscle, pancreas and kidney. It is also expressed in tumor cells but not in normal skin. During development PTCH is found in all major target tissues of sonic hedgehog, such as the ventral neural tube, somites, and tissues surrounding the zone of polarizing activity of the limb bud. Defects in PTCH are probably the cause of basal cell nevus syndrome also known as Gorlin syndrome or Gorlin-Goltz syndrome.

**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.

**Subunit:**

Interacts with SNX17. Interacts with IHH.

**Subcellular Location:**

Membrane.

**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.

**Post-translational modifications:**

Glycosylation is necessary for SHH binding.

**DISEASE:**

Defects in PTCH1 are probably the cause of basal cell nevus syndrome (BCNS) [MIM:109400]; also known as Gorlin syndrome or Gorlin-Goltz syndrome. BCNS is an autosomal dominant disease characterized by nevoid basal cell carcinomas (NBCCS) and developmental abnormalities such as rib and craniofacial alterations, polydactyly, syndactyly, and spina bifida. In addition, the patients suffer from a multitude of tumors like basal cell carcinomas (BCC), fibromas of the ovaries and heart, cysts of the skin, jaws and mesentery, as well as medulloblastomas and meningiomas. PTCH1 is also mutated in squamous cell carcinoma (SCC). Could also be associated with large body size observed in BCNS patients.

Defects in PTCH1 are a cause of sporadic basal cell carcinoma (BCC) [MIM:605462].

Defects in PTCH1 are the cause of holoprosencephaly type 7 (HPE7) [MIM:610828].

Holoprosencephaly (HPE) [MIM:236100] is the most common structural anomaly of the brain, in which the developing forebrain fails to correctly separate into right and left

**Product Detail:**

hemispheres. Holoprosencephaly is genetically heterogeneous and associated with several distinct facies and phenotypic variability.

**Similarity:**

Belongs to the patched family.  
Contains 1 SSD (sterol-sensing) domain.

**SWISS:**

Q13635

**Gene ID:**

5727

**Database links:**

[Entrez Gene: 5727](#)Human

[Entrez Gene: 19206](#)Mouse

[Entrez Gene: 89830](#)Rat

[Omim: 601309](#)Human

[SwissProt: Q13635](#)Human

[SwissProt: Q86XG7](#)Human

[SwissProt: Q61115](#)Mouse

[Unigene: 494538](#)Human

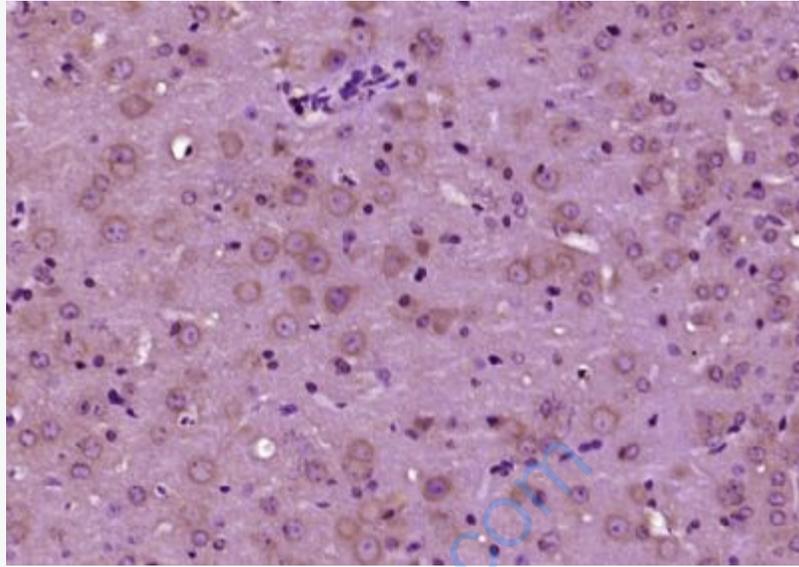
[Unigene: 228798](#)Mouse

[Unigene: 102312](#)Rat

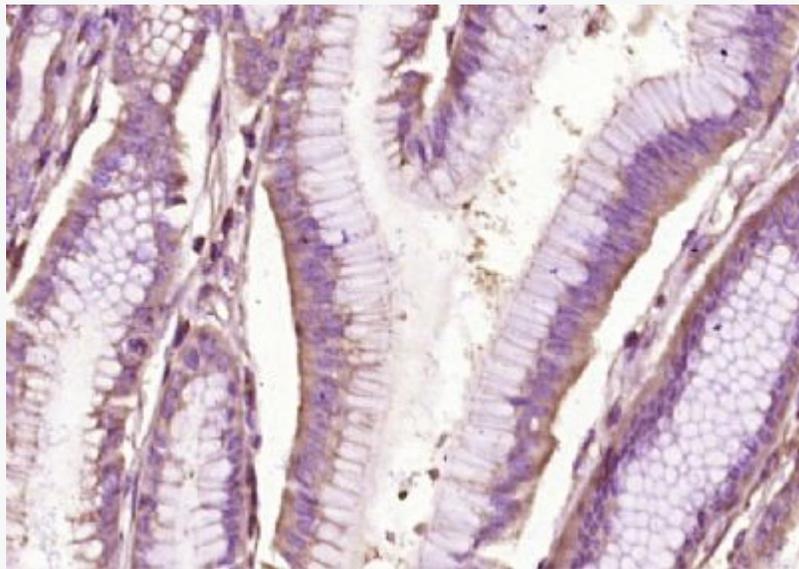
**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Ptch蛋白是细胞表面接受Hh信号蛋白的受体, 目前主要用于Tumour方面的研究。



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Patched) Polyclonal Antibody, Unconjugated (SL21337R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



**Picture:**

Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Patched) Polyclonal Antibody, Unconjugated (SL21337R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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