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Rabbit Anti-Patched antibody

SL1614R

Product Name:	Patched
Chinese Name:	Patched/PTCH抗体
Alias:	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; Ptch2; ; Patched / PTCH; PTC1_HUMAN.
文献引用 PubMed :	**Specific References(1)**|SL1614R has been referenced in 1 publications. **[IF=2.47]**Ma, Tao-tao, et al. "Geniposide alleviates inflammation by suppressing MeCP2 in mice with carbon tetrachloride-induced acute liver injury and LPS-treated THP-1 cells." International Immunopharmacology (2015).**WB;Human**. PubMed:26371859
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=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.
Molecular weight:	161kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Patched/PTCH:581-680/1447
Lsotype:	IgG

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Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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.
PubMed:	PubMed
Product Detail:	PTCH (Patched protein homolog 1) is a receptor for sonic hedgehog (SHH), indian hedgehog (IHH) and desert hedgehog (DHH). PTCH associates with the smoothened 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 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. **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,

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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 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: 5727Human

Entrez Gene: 19206Mouse

Entrez Gene: 89830Rat

Omim: 601309Human

SwissProt: Q13635Human

SwissProt: Q86XG7Human

SwissProt: Q61115Mouse

Unigene: 494538Human

Unigene: 228798Mouse

Unigene: 102312Rat

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。

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