



## PTCH2, Patched homolog 2 polyclonal antibody

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### Box 1 | Basic Info

Cat. No.	PAB-11031
Animal ID	Rb0355-0356
Host	Rabbit
Reactivity	Human
Format	Purified
Accession number	NM_003738
Amount	100 µg

Alternative Name(s): PTC2

Patched homolog 2 (PTCH2) is the receptor for sonic hedgehog, a secreted molecule implicated in the formation of embryonic structures and in tumorigenesis. PTCH2 associates with the smoothed protein to transduce hedgehog signals. PTCH2 has been shown to be mutated in medulloblastomas and in somatic basal cell carcinomas, suggesting a role in the development of some tumors. Alternative transcript variants have been described, but their biological function has not been determined.

#### Buffers

Purified rabbit polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column and eluted out with both high and low pH buffers and neutralized immediately after elution then followed by dialysis against PBS.

#### Immunogen

KLH conjugated synthetic peptide comprised of amino acids 1 - 17 [MTRSPPLRELPPSYTPP] of the human patched homolog 2 (PTCH2) protein.

#### Application:

Tested by peptide-specific ELISA (1:1,000).

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C. Avoid repeated freeze-thaw cycles.

#### References:

1. Clark HF, Gurney AL, Abaya E, Baker K, Baldwin D, Brush J, Chen J, Chow B, Chui C, Crowley C, Currell B, Deuel B, Dowd P et al.: The secreted protein discovery initiative (SPDI), a large-scale effort to identify novel human secreted and transmembrane proteins: a bioinformatics assessment. *Genome Res.* 13(10): 2265-2270 (2003).
2. Zaphiropoulos PG, Uden AB, Rahnama F, Hollingsworth RE, Toftgard R: PTCH2, a novel human patched gene, undergoing alternative splicing and up-regulated in basal cell carcinomas. *Cancer Res.* 59(4): 787-792 (1999).
3. Carpenter D, Stone DM, Brush J, Ryan A, Armanini M, Frantz G, Rosenthal A, de Sauvage FJ: Characterization of two patched receptors for the vertebrate hedgehog protein family. *Proc. Natl. Acad. Sci. U S A.* 95(23): 13630-13634 (1998).