

PTCH1

Reactivity: Human Mouse

Tested applications: WB

Recommended Dilution: WB 1:500 - 1:1000

Calculated MW: 161kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human PTCH1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

BCNS; FLJ26746; FLJ42602; HPE7; NBCCS; PTC; PTC1; PTCH; PTCH11;

Catalog #: A0826

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 5727

Isotype: IgG

Swiss Prot: Q13635

Purity: Affinity purification

For research use only.

Background:

Patched1 and 2 (PTCH1 and PTCH2) are twelve-pass transmembrane proteins that function as the receiving receptors for members of the Hedgehog family of proteins (1-4). In the absence of Hedgehog proteins, PTCH suppresses the otherwise constitutively active signaling receptor Smoothened (Smo) so that the Hedgehog signaling pathway is in the off state (5,6). Deactivating mutations that impair the ability of PTCH1 to suppress Smo are frequently found in patients with nevoid basal cell carcinoma syndrome (7,8). PTCH proteins have a sterol-sensing domain (SSD) also found in several proteins that function in cholesterol homeostasis, such as HMGCR (3-hydroxy-3-methylglutaryl coenzyme A-reductase) and SCAP (sterol regulatory element-binding protein-cleavage activating protein). However, the role of the SSD in Patched proteins is not clear (9,10). PTCH1 itself is a target of Hedgehog signaling (11), with elevated PTCH1 expression as a surrogate marker for Hedgehog pathway activation (12-14).

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