

Recombinant Human PTCH1

Cat. No. PTCH1-29531TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 841-940 of Human Patched / PTCH with an N terminal proprietary tag; Predicted MWt 36.63kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	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.
Molecular Weight	36.630kDa inclusive of tags
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.

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	PKMWLHYFRDWLQGLQDAFSDWETGKIMPNNYKNGSDDGVLAYKLLVQTGSRD KPIDISQLTKQRLVDADGIINPSAFYIYLTAWVSNDPVAYAASQAN
Sequence Similarities	Belongs to the patched family.Contains 1 SSD (sterol-sensing) domain.

GENE INFORMATION

Gene Name	PTCH1 patched 1 [Homo sapiens]
Official Symbol	PTCH1
Synonyms	PTCH1; patched 1; NBCCS, patched (Drosophila) homolog , patched homolog (Drosophila) , patched homolog 1 (Drosophila) , PTCH; protein patched homolog 1; BCNS;
Gene ID	5727
mRNA Refseq	NM_000264
Protein Refseq	NP_000255
MIM	601309

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Uniprot ID	Q13635
Chromosome Location	9q22.1-q31
Pathway	Basal cell carcinoma, organism-specific biosystem; Basal cell carcinoma, conserved biosystem; Class B/2 (Secretin family receptors), organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem;
Function	hedgehog receptor activity; heparin binding; patched binding; protein binding; receptor activity;

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