

Protein patched homolog 1 is a protein that is the member of the patched family and in humans is encoded by the PTCH1 gene.

PTCH1 is a member of the patched gene family and is the receptor for sonic hedgehog, a secreted molecule implicated in the formation of embryonic structures and in tumorigenesis. This gene functions as a tumor suppressor. The PTCH1 gene product, is a transmembrane protein that suppresses the release of another protein called smoothed, and when sonic hedgehog binds PTCH1, smoothed is released and signals cell proliferation.

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Last update: **2024/06/07 02:50**

