

Patched (PTCH) Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP7733b**Specification**

Patched (PTCH) Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [Q13635](#)**Patched (PTCH) Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 5727**Other Names**

Protein patched homolog 1, PTC, PTC1, PTCH1, PTCH

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7733b](/products/AP7733b) was selected from the human region of human Ptch (human C-term). A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

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

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Patched (PTCH) Antibody (C-term) Blocking peptide - Protein Information**Name** PTCH1**Synonyms** PTCH**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.

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:Q61115}; Multi-pass membrane protein

Tissue Location

In the adult, expressed in brain, lung, liver, heart, placenta, skeletal muscle, pancreas and kidney.

Expressed in tumor cells but not in normal skin

Patched (PTCH) Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

Patched (PTCH) Antibody (C-term) Blocking peptide - Images

Patched (PTCH) Antibody (C-term) Blocking peptide - Background

Ptch is a member of the patched gene family. This 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. It functions as a tumor suppressor. Mutations of the Ptch gene have been associated with basal cell nevus syndrome, esophageal squamous cell carcinoma, trichoepitheliomas, transitional cell carcinomas of the bladder, as well as holoprosencephaly.

Patched (PTCH) Antibody (C-term) Blocking peptide - References

Sun,L.S., J. Dent. Res. 87 (6), 575-579 (2008)Shimokawa,T., Oncogene 26 (34), 4889-4896 (2007)