

**Patched (PTCH) Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP7733a**

**Specification**

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**Patched (PTCH) Antibody (N-term) Blocking peptide - Product Information**

Primary Accession [Q13635](#)

**Patched (PTCH) Antibody (N-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 [AP7733a](/products/AP7733a) was selected from the Human region of human Ptch (Human N-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 (N-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 (N-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **Patched (PTCH) Antibody (N-term) Blocking peptide - Images**

### **Patched (PTCH) Antibody (N-term) Blocking peptide - Background**

Ptch 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 (N-term) Blocking peptide - References**

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