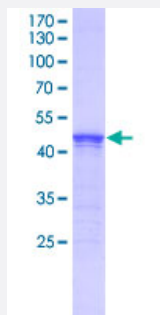


# PTCH1 (Human) Recombinant Protein (Q02)

Catalog # H00005727-Q02

Size 25 ug, 10 ug

## Applications



## Specification

|                                      |                                                                                                            |
|--------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>           | Human PTCH1 partial ORF (NP_000255.2, 651 a.a. - 750 a.a.) recombinant protein with GST tag at N-terminal. |
| <b>Sequence</b>                      | AHETQITMQSTVQLRTEYDPHTHVYYTTAEPRSEISVQPVTVTQDTLSCQSPESTSSTRDLLSQFS<br>DSSLHCLEPPCTKWLSSFAEKHYAPFLLKPKAK    |
| <b>Host</b>                          | Wheat Germ (in vitro)                                                                                      |
| <b>Theoretical MW (kDa)</b>          | 36.63                                                                                                      |
| <b>Interspecies Antigen Sequence</b> | Mouse (98); Rat (97)                                                                                       |
| <b>Preparation Method</b>            | <a href="#">in vitro wheat germ expression system</a>                                                      |
| <b>Purification</b>                  | Glutathione Sepharose 4 Fast Flow                                                                          |
| <b>Quality Control Testing</b>       | 12.5% SDS-PAGE Stained with Coomassie Blue                                                                 |
| <b>Storage Buffer</b>                | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                   |
| <b>Storage Instruction</b>           | Store at -80°C. Aliquot to avoid repeated freezing and thawing.                                            |
| <b>Note</b>                          | Best use within three months from the date of receipt of this protein.                                     |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — PTCH1

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">5727</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| GeneBank Accession# | <a href="#">NM_000264.3</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Protein Accession#  | <a href="#">NP_000255.2</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Gene Name           | PTCH1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Gene Alias          | BCNS, FLJ26746, FLJ42602, HPE7, NBCCS, PTC, PTC1, PTCH, PTCH11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Gene Description    | patched homolog 1 (Drosophila)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Omim ID             | <a href="#">109400</a> <a href="#">155255</a> <a href="#">601309</a> <a href="#">605462</a> <a href="#">610828</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Gene Summary        | 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. [provided by RefSeq] |
| Other Designations  | OTTHUMP00000021709 OTTHUMP00000021710 PTCH protein +12b PTCH protein +4' PTCH protein -10 patched                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Pathway

- [Basal cell carcinoma](#)

- [Hedgehog signaling pathway](#)
- [Pathways in cancer](#)

## Disease

- [Basal Cell Nevus Syndrome](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Diabetes Mellitus](#)
- [Disease Susceptibility](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Jaw Neoplasms](#)
- [Liver Neoplasms](#)
- [Lung Diseases](#)
- [Odontogenic Cysts](#)
- [Odontogenic Tumors](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Skin Neoplasms](#)
- [Sleep Apnea](#)
- [Thyroid Neoplasms](#)