

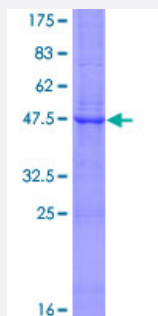
Full-Length

PTCH (Human) Recombinant Protein (P01)

Catalog # H00005727-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PTCH full-length ORF (AAH43542.1, 1 a.a. - 183 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MGKATGRKAPLWLRKFQRLLFKLGCYQKNCGKFLVVGLLIFGAFAVGLKAANLETNVEELWVE VGGRVSRELN YTRQKIGEEAMFNPQLMIQTPKEEGANVLTTEALLQHLDL SALQASRVHVYMYNRQ WKLEHLCYKSGELITETGYMDQII EYLYPCLITPLDCFWEGAKLQSGTAYLL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	47.2
Interspecies Antigen Sequence	Mouse (100); Rat (100)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

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 [5727](#)

GeneBank Accession# [BC043542.1](#)

Protein Accession# [AAH43542.1](#)

Gene Name PTCH1

Gene Alias BCNS, FLJ26746, FLJ42602, HPE7, NBCCS, PTC, PTC1, PTCH, PTCH11

Gene Description patched homolog 1 (Drosophila)

Omim ID [109400](#) [155255](#) [601309](#) [605462](#) [610828](#)

Gene Ontology [Hyperlink](#)

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](#)