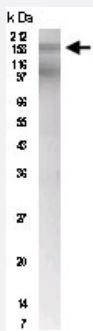


PTCH1 polyclonal antibody

Catalog # PAB12543 Size 100 uL

Applications



Western Blot (Tissue lysate)

Western blot analysis of human PTCH1 in fetal brain lysate with PTCH1 polyclonal antibody (Cat # PAB12543) at a 1 : 500 dilution.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PTCH1.
Immunogen	A synthetic peptide corresponding to amino acids 269-279 of human and mouse PTCH1/Ptch1.
Host	Rabbit
Theoretical MW (kDa)	161
Reactivity	Human, Mouse, Rat
Form	Liquid
Recommend Usage	ELISA (1:100-1:2000) Immunocytochemistry/Immunofluorescence (1:10-1:500) Immunohistochemistry (Frozen sections) (1:10-1:500) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:10-1:500) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.02% sodium azide).
Storage Instruction	Store at 4°C for short term. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

Western blot analysis of human PTCH1 in fetal brain lysate with PTCH1 polyclonal antibody (Cat # PAB12543) at a 1 : 500 dilution.

Gene Info — PTCH1

Entrez GeneID [5727](#)

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

Gene Info — Ptch1

Entrez GeneID [19206](#)

Gene Name Ptch1

Gene Alias A230106A15Rik, Ptc, Ptc1, Ptch, mes

Gene Description patched homolog 1

Gene Ontology

[Hyperlink](#)

Other Designations

Patched 1|Ptc1 protein +12b|mesenchymal dysplasia|patched

Publication Reference

- [Immunological characterization of chromatin assembly factor I, a human cell factor required for chromatin assembly during DNA replication in vitro.](#)

Smith S, Stillman B.

The Journal of Biological Chemistry 1991 Jun; 266(18):12041.

Application: ICC, IP, WB-Ce, WB-Re, Human, HEK 293 cells, HeLa cells, Recombinant protein

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](#)