

## Product datasheet for **CF803741**

### PTCH1 Mouse Monoclonal Antibody [Clone ID: OTI1H10]

#### Product data:

|                         |                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:           | Primary Antibodies                                                                                                                                                                                                                                                                                                                   |
| Clone Name:             | OTI1H10                                                                                                                                                                                                                                                                                                                              |
| Applications:           | WB                                                                                                                                                                                                                                                                                                                                   |
| Recommended Dilution:   | WB 1:2000                                                                                                                                                                                                                                                                                                                            |
| Reactivity:             | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                    |
| Host:                   | Mouse                                                                                                                                                                                                                                                                                                                                |
| Isotype:                | IgG1                                                                                                                                                                                                                                                                                                                                 |
| Clonality:              | Monoclonal                                                                                                                                                                                                                                                                                                                           |
| Immunogen:              | Human recombinant protein fragment corresponding to amino acids 770-1027 of human PTCH1 (NP_000255) produced in E.coli.                                                                                                                                                                                                              |
| Formulation:            | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)                                                                                                                                                                                                                                                                    |
| Reconstitution Method:  | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)                                                                                                                                                                                                                            |
| Conjugation:            | Unconjugated                                                                                                                                                                                                                                                                                                                         |
| Storage:                | Store at -20°C as received.                                                                                                                                                                                                                                                                                                          |
| Stability:              | Stable for 12 months from date of receipt.                                                                                                                                                                                                                                                                                           |
| Predicted Protein Size: | 160.4 kDa                                                                                                                                                                                                                                                                                                                            |
| Gene Name:              | patched 1                                                                                                                                                                                                                                                                                                                            |
| Database Link:          | <a href="#">NP_000255</a><br><a href="#">Entrez Gene 19206 Mouse</a> <a href="#">Entrez Gene 89830 Rat</a> <a href="#">Entrez Gene 5727 Human</a><br><a href="#">Q13635</a>                                                                                                                                                          |



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**Background:**

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, Jul 2008]

**Synonyms:**

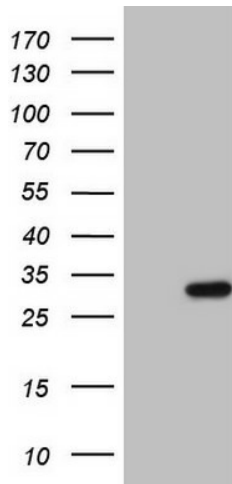
BCNS; HPE7; NBCCS; PTC; PTC1; PTCH; PTCH11

**Protein Families:**

Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

**Protein Pathways:**

Basal cell carcinoma, Hedgehog signaling pathway, Pathways in cancer

**Product images:**

Human recombinant protein fragment corresponding to amino acids 770-1027 of human PTCH1 (NP\_000255) produced in E.coli.