

Product datasheet for **CF803788**

PTCH1 Mouse Monoclonal Antibody [Clone ID: OT11H8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OT11H8
Applications:	WB
Recommended Dilution:	WB 1:200
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:	NP_000255 Entrez Gene 19206 Mouse Entrez Gene 89830 Rat Entrez Gene 5727 Human Q13635



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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:

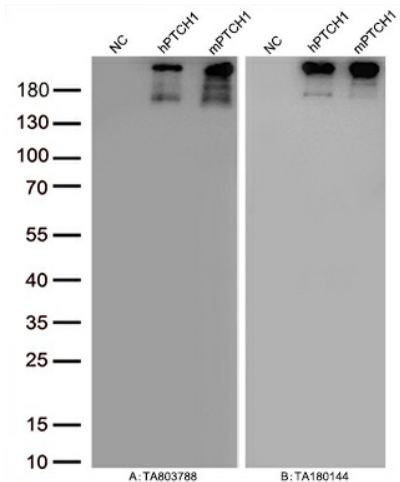
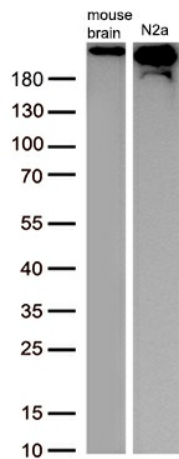


Figure A, Western blot analysis of overexpressed lysates (15ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], NC), human PTCH1 plasmid ([RC216999], hPTCH1), mouse PTCH1 plasmid ([MR227010], mPTCH1) using anti-PTCH1 antibody [TA803788] (1:10000@1mg/ml). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:10000@1mg/ml).



Western blot analysis of extracts (30ug per lane) from Mouse brain and N2a lysates by using anti-PTCH1 antibody (TA803788, 1:1000@1mg/ml).