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Product datasheet for TA500123S

PTCH1 Mouse Monoclonal Antibody [Clone ID: OTI5C7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI5C7
Applications:	IF, IHC, WB
Recommended Dilution:	WB 1:500, IHC 1:50, IF 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 122-436 of human PTCH1 (NP_000255) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.2 mg/ml
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 MouseEntrez Gene 89830 RatEntrez Gene 5727 Human Q13635

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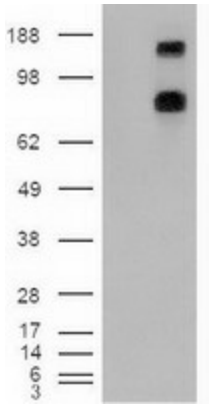
Background: This gene encodes a member of the patched gene family. The encoded protein is the receptor for sonic hedgehog, a secreted molecule implicated in the formation of embryonic structures and in tumorigenesis, as well as the desert hedgehog and indian hedgehog proteins. This gene functions as 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.

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:



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PTCH1 (Cat# [RC216999], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PTCH1(Cat# [TA500123]). Positive lysates [LY424834] (100ug) and [LC424834] (20ug) can be purchased separately from OriGene.

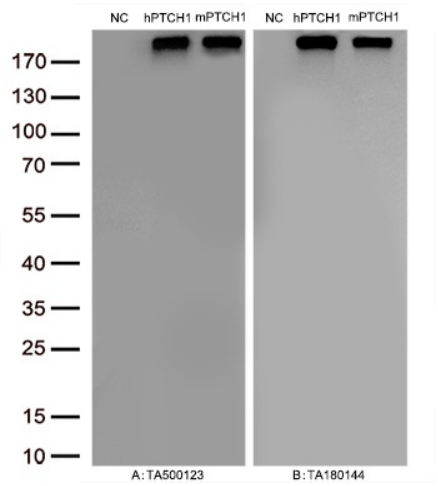
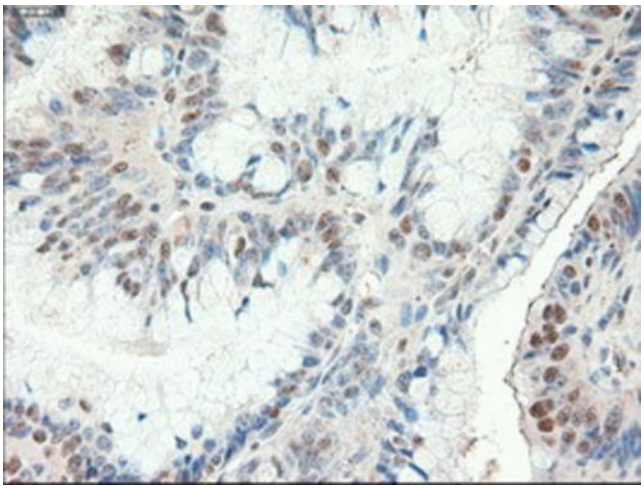
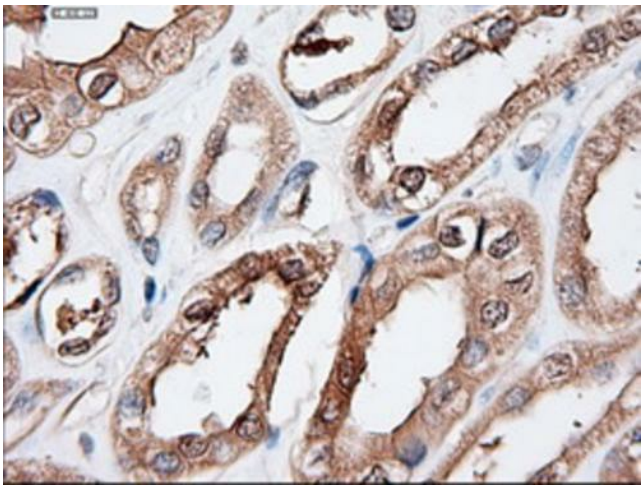


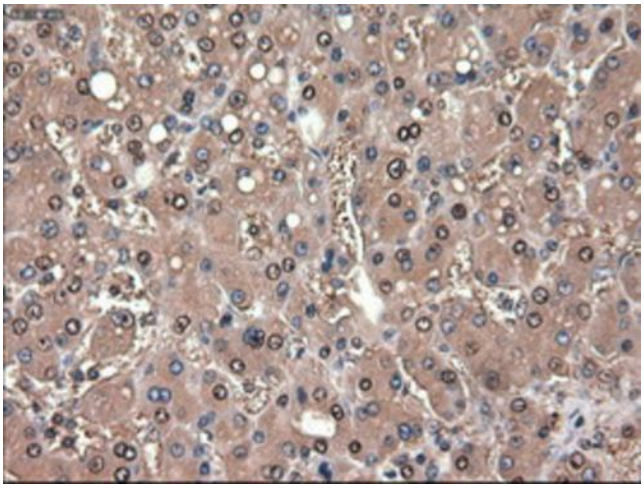
Figure A, Western blot analysis of overexpressed lysates(25ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], NC) , human PTCH1 plasmid ([RC216999], hPTCH1), mouse PTCH1 plasmid ([MR227010], mPTCH1) using anti-PTCH1 antibody [TA500123](1:500). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:1000)



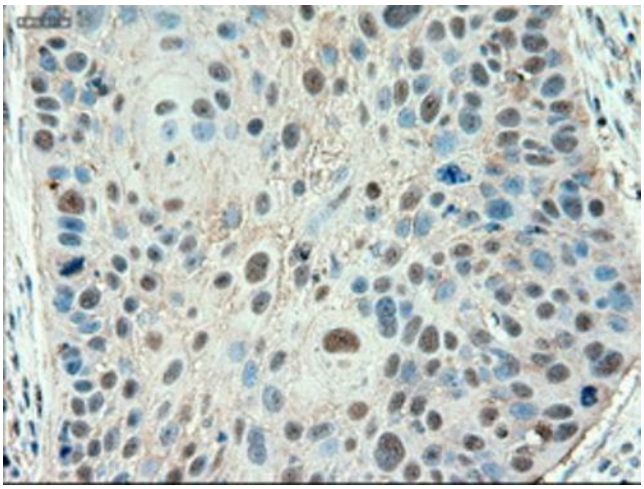
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-PTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500123])



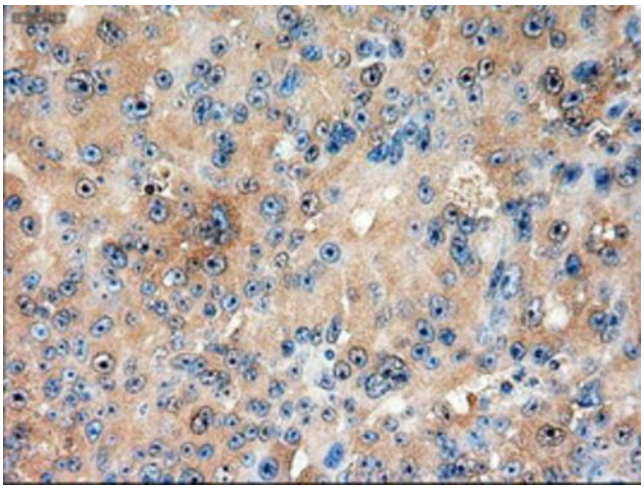
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-PTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500123])



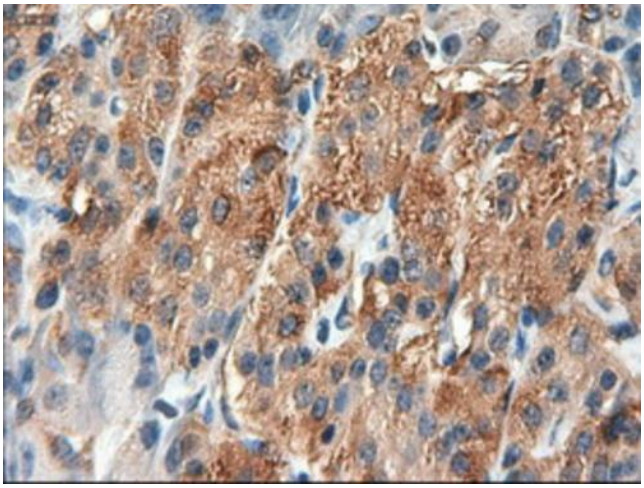
Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-PTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500123])



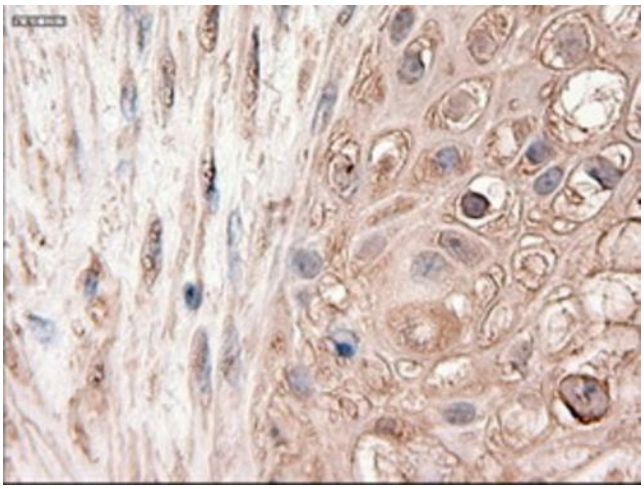
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-PTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500123])



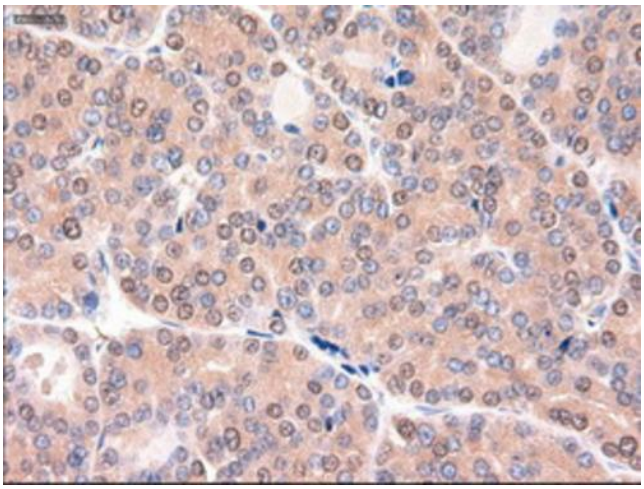
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-PTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500123])



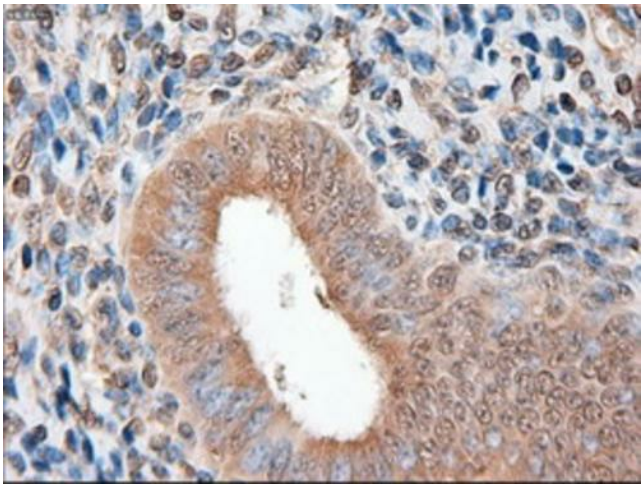
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-PTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500123])



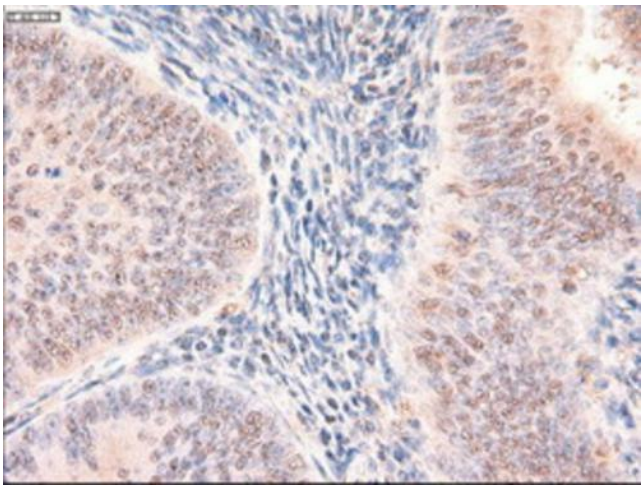
Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-PTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500123])



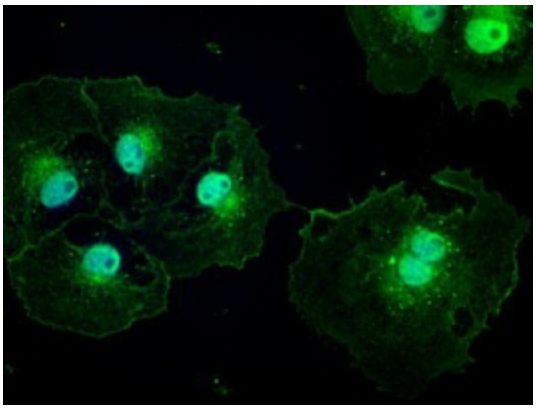
Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-PTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500123])



Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-PTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500123])



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-PTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500123])



Anti-PTCH1 mouse monoclonal antibody ([TA500123]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY PTCH1 ([RC216999]).