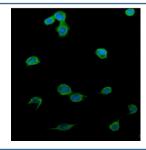


# Patched 2 Antibody / PTCH2 (RQ5677)

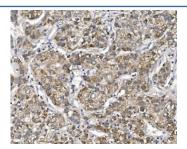
Catalog No.	Formulation	Size
RQ5677	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

## **Bulk quote request**

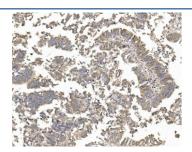
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q9Y6C5
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry : 1-2ug/ml Immunofluorescence : 2-4ug/ml
Limitations	This Patched 2 antibody is available for research use only.



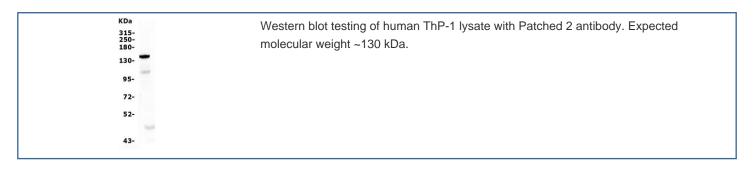
Immunofluorescent staining of FFPE human U-2 OS cells with Patched 2 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



IHC staining of FFPE human liver cancer with Patched 2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human rectal cancer with Patched 2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



### **Description**

PTCH2 (patched 2), also known as PTC2, encodes a 1.203-amino acid putative transmembrane protein that is highly homologous to the PTCH product. The Patched-hedgehog signaling pathway is involved in establishing segment polarity and the anterior-posterior orientation of a number of developing appendages. The pathway is conserved from fly to vertebrates and has been implicated in a number of human neoplasms and developmental syndromes. Mutations in the human Patched gene are the basis of the nevoid basal cell carcinoma syndrome. With age, homozygous mutant male mice developed skin lesions consisting of alopecia and epidermal hyperplasia, suggesting a role for Ptch2 in adult epidermal homeostasis via Shh signaling.

## **Application Notes**

Optimal dilution of the Patched 2 antibody should be determined by the researcher.

#### **Immunogen**

Amino acids FDYAHSQRALFDLHQR from the human protein were used as the immunogen for the Patched 2 antibody.

#### **Storage**

After reconstitution, the Patched 2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.