

Patched Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51457

Product Information

Application	WB
Primary Accession	Q13635
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	160545

Additional Information

Gene ID	5727
Other Names	Protein patched homolog 1, PTC, PTC1, PTCH1, PTCH
Target/Specificity	KLH conjugated synthetic peptide derived from human Patched
Dilution	WB~~ 1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	PTCH1
Synonyms	PTCH
Function	Acts as a receptor for sonic hedgehog (SHH), indian hedgehog (IHH) and desert hedgehog (DHH). Associates with the smoothened protein (SMO) to transduce the hedgehog's proteins signal. Seems to have a tumor suppressor function, as inactivation of this protein is probably a necessary, if not sufficient step for tumorigenesis.
Cellular Location	Cell membrane {ECO:0000250 UniProtKB:Q61115}; Multi-pass membrane protein
Tissue Location	In the adult, expressed in brain, lung, liver, heart, placenta, skeletal muscle, pancreas and kidney. Expressed in tumor cells but not in normal skin

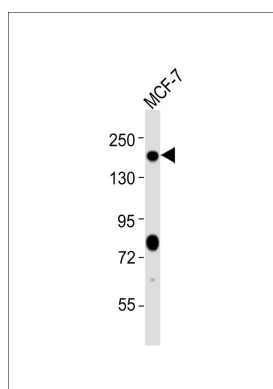
Background

Acts as a receptor for sonic hedgehog (SHH), indian hedgehog (IHH) and desert hedgehog (DHH). Associates with the smoothened protein (SMO) to transduce the hedgehog's proteins signal. Seems to have a tumor suppressor function, as inactivation of this protein is probably a necessary, if not sufficient step for tumorigenesis.

References

Johnson R.L.,et al.Science 272:1668-1671(1996).
Hahn H.,et al.J. Biol. Chem. 271:12125-12128(1996).
Humphray S.J.,et al.Nature 429:369-374(2004).
Nagao K.,et al.Genomics 85:462-471(2005).
Shimokawa T.,et al.Oncogene 26:4889-4896(2007).

Images



Anti-Patched Antibody at 1:1000 dilution + MCF-7 whole cell lysates. Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 161 kDa. Blocking/Dilution buffer: 5% NFDM/TBST.

Citations

- [The sonic hedgehog pathway mediates Tongxinluo capsule-induced protection against blood-brain barrier disruption after ischemic stroke in mice.](#)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.