

Anti-Patched Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse (predicted: Rat, Chicken, Cow, Horse, Rabbit)
Molecular Weight:	Theoretical: 161 kDa.
Purification:	Protein A purified

Applications

Application:	ELISA, ICC/IF, IF, IHC-Fr, IHC-P, WB
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; ICC/IF: 1:100-500; IF: 1:100-500; ELISA: 1:5000-10000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human Patched/PTCH
Antigen Species:	Human
Gene ID:	5727
Uniprot ID:	Q13635
Synonyms:	Patched(Drosophila) homolog; PTCH protein-10; Patched homolog 1(Drosophila); PTC; Patched/PTCH; FLJ42602; Protein patched homolog 1; Patched homolog(Drosophila); PTC1; A230106A15Rik; Patched; OTTHUMP00000021710; NBCCS; Patched homolog 1; Patched 1; PT1; mes; PTCH protein+12b; PTCH; PTCH1; Patched protein homolog 1; HPE7; Ptch2; PTCH protein; FLJ26746; PTCH11; OTTHUMP00000021709; PTCH protein+4'; Holoprosencephaly 7; BCNS
Biology Area:	PTC & Wnt pathway, Cell Cycle Inhibitors, Neurogenesis, Surface Molecules

Research Background

PTCH (Patched protein homolog 1) is a receptor for sonic hedgehog (SHH), indian hedgehog (IHH) and desert hedgehog (DHH). PTCH associates with the smoothed protein (SMO) to transduce the hedgehog's proteins signal. PTCH has a tumor suppressor function, as inactivation of this protein is probably a necessary, if not sufficient step for tumorigenesis. PTCH is expressed in the adult brain, lung, liver, heart, placenta, skeletal muscle, pancreas and kidney. It is also expressed in tumor cells but not in normal skin. During development PTCH is found in all major target tissues of sonic hedgehog, such as the ventral neural tube, somites, and tissues surrounding the zone of polarizing activity of the limb bud.

Defects in PTCH are probably the cause of basal cell nevus syndrome also known as Gorlin syndrome or Gorlin-Goltz syndrome.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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