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Product datasheet

Anti-Patched / PTCH1 antibody ab51983

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製品の概要

製品名	Anti-Patched / PTCH1 antibody
製品の詳細	Goat polyclonal to Patched / PTCH1
由来種	Goat
アプリケーション	**適用あり:** ICC, WB
種交差性	**交差種:** Mouse, Human **交差が予測される動物種:** Cow, Dog, Pig
免疫原	Synthetic peptide corresponding to Human Patched/ PTCH1 aa 1271-1285 (internal sequence). Sequence: C-HPESRHHPPSNPRQQ Database link: **Q13635** (Peptide available as **ab200894**) Run BLAST with Run BLAST with
特記事項	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.5% BSA, Tris buffered saline
精製度	Immunogen affinity purified
特記事項(精製)	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity

chromatography using the immunizing peptide.

ポリ/モノ ポリクローナル

アイソタイプ IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab51983の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC		Use at an assay dependent concentration.
WB	★★☆☆☆ (1)	Use a concentration of 1 - 3 µg/ml. Detects a band of approximately 150 kDa (predicted molecular weight: 161 kDa). 1 hour primary incubation is recommended for this product.

ターゲット情報

機能 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.

組織特異性 In the adult, expressed in brain, lung, liver, heart, placenta, skeletal muscle, pancreas and kidney. Expressed in tumor cells but not in normal skin.

関連疾患 Defects in PTCH1 are probably the cause of basal cell nevus syndrome (BCNS) [MIM:109400]; also known as Gorlin syndrome or Gorlin-Goltz syndrome. BCNS is an autosomal dominant disease characterized by nevoid basal cell carcinomas (NBCCS) and developmental abnormalities such as rib and craniofacial alterations, polydactyly, syndactyly, and spina bifida. In addition, the patients suffer from a multitude of tumors like basal cell carcinomas (BCC), fibromas of the ovaries and heart, cysts of the skin, jaws and mesentery, as well as medulloblastomas and meningiomas. PTCH1 is also mutated in squamous cell carcinoma (SCC). Could also be associated with large body size observed in BCNS patients.
Defects in PTCH1 are a cause of sporadic basal cell carcinoma (BCC) [MIM:605462].
Defects in PTCH1 are the cause of holoprosencephaly type 7 (HPE7) [MIM:610828]. Holoprosencephaly (HPE) [MIM:236100] is the most common structural anomaly of the brain, in which the developing forebrain fails to correctly separate into right and left hemispheres. Holoprosencephaly is genetically heterogeneous and associated with several distinct facies and phenotypic variability.

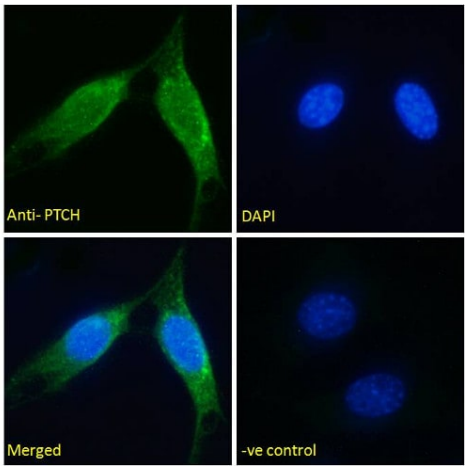
配列類似性 Belongs to the patched family.
Contains 1 SSD (sterol-sensing) domain.

発生段階 In the embryo, 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.

翻訳後修飾 Glycosylation is necessary for SHH binding.

細胞内局在 Membrane.

画像



Immunocytochemistry - Anti-Patched / PTCH1 antibody (ab51983)

Immunofluorescence analysis of paraformaldehyde fixed NIH3T3 cells permeabilized with 0.15% Triton staining Patched / PTCH1. Primary incubation with ab51983 (5µg/ml) for 1 hour followed by Alexa Fluor 488 secondary antibody (2µg/ml). Nuclear counter stain is DAPI.

Western blot - Anti-Patched / PTCH1 antibody (ab51983)

Anti-Patched / PTCH1 antibody (ab51983) at 1 µg/ml + Human Brain lysate in RIPA buffer at 35 µg

Predicted band size: 161 kDa
Observed band size: 150 kDa

Primary incubation was 1 hour. Detected by chemiluminescence.

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