

For Research Use Only

Anti-Human PTCH2 Rabbit Recombinant Antibody, PBS Only

Catalog Number: 98705-2-PBS



Basic Information

Catalog Number: 98705-2-PBS	GenBank Accession Number: NM_003738	Purification Method: Protein A purification
Concentration: 1mg, 3 mg/ml	GeneID (NCBI): 8643	CloneNo.: 251786C3
Source: Rabbit	UNIPROT ID: Q9Y6C5	
Isotype: IgG	Full Name: patched homolog 2 (Drosophila)	
	Calculated MW: 131 kDa	

Applications

Tested Applications:
FC

Species Specificity:
human

Background Information

PTCH1 (patched homolog 1) and PTCH2 are twelve-pass transmembrane proteins that act receptors of Hedgehog signaling pathway (PMID: 8906794; 9811851). Signals of Hedgehog family proteins (SHH, IHH and DHH in humans) are transduced through Patched family receptors (PTCH1 and PTCH2) and Smoothened (SMO) to Gli family transcription factors. Hedgehog pathway plays a critical role in embryonic development and tissue homeostasis, and its dysregulation has been implicated in many human diseases including congenital disorder and cancer (PMID: 23719536; 23532857). PTCH2 may function as a tumor suppressor in the Hedgehog signaling pathway. Alterations in PTCH2 gene have been associated with nevoid basal cell carcinoma syndrome, basal cell carcinoma, medulloblastoma, and susceptibility to congenital macrostomia. This antibody is specific to PTCH2.

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:

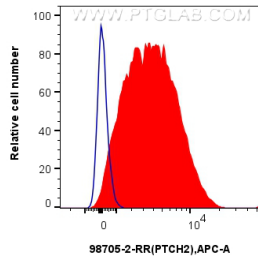
T: 4006900926

E: Proteintech-CN@ptglab.com

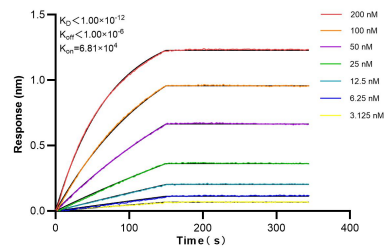
W: ptgcn.com

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Selected Validation Data



1x10⁶ SH-SY5Y cells were surface stained with 0.25 ug Anti-Human PTCH2 Rabbit RecAb (98705-2-RR, Clone: 251786C3) (red) or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue), and APC-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were not fixed. This data was developed using the same antibody clone with 98705-2-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 98705-2-RR against Human PTCH2 were performed. The affinity constant is below 1 pM.