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Product Information

MemDX™ Membrane Protein Human PTCH1 (Patched 1) for Antibody Discovery

Cat. No.: **MP0088Q**
This product is for research use only and is not intended for diagnostic use.

This product is a 30.4 kDa Human PTCH1 membrane protein expressed in Sf9. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
PTCH1

Protein Length
Partial

Protein Class
Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Molecular Weight
30.4 kDa

TMD
12

Sequence
MASAGNAAEPQDRGGGGSGCIGAPGRPAGGGRRRRTGGLRRAAAPDRDYLHRPSYCDAAFALEQISKGKATGRKAPLWLRAKF

Product Description

Expression Systems
Sf9

Tag
C-DDK

Form
Powder

Purity
> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

50mM Tris-HCl, pH8.0, 100mM glycine, 10% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

PTCH1

Full Name

Patched 1

Introduction

This gene encodes a member of the patched family of proteins and a component of the hedgehog signaling pathway. Hedgehog signaling is important in embryonic development and tumorigenesis. The encoded protein is the receptor for the secreted hedgehog ligands, which include sonic hedgehog, indian hedgehog and desert hedgehog. Following binding by one of the hedgehog ligands, the encoded protein is trafficked away from the primary cilium, relieving inhibition of the G-protein-coupled receptor smoothened, which results in activation of downstream signaling. Mutations of this gene have been associated with basal cell nevus syndrome and holoprosencephaly.

Alternative Names

protein patched homolog 1; BCNS; HPE7; NBCCS; PTCH; PTCH11; PTC; PTC1

Gene ID

5727

UniProt ID

Q13635

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