Datasheet for ABIN7520030

FZD1 Protein (Fc Tag,His tag)

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Overview

Quantity:	20 µg
Target:	FZD1 (Fzd1)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FZD1 protein is labelled with Fc Tag,His tag.

Product Details

Purpose:	Recombinant Human Frizzled-1/FZD1 Protein
Sequence:	QAAGQGPGQG PGPGQQPPPP PQQQQSGQQY NGERGISVPD HGYCQPISIP LCTDIAYNQT IMPNLLGHTN QEDAGLEVHQ FYPLVKVQCS AELKFFLCSM YAPVCTVLEQ ALPPCRSLCE RARQGCEALM NKFGFQWPDT LKCEKFPVHG AGELCVGQNT SDKGTPTPSL LPEFWTSNPQ H
Specificity:	Gln73-His253
Purity:	> 92 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.

Target Details

Target:	FZD1 (Fzd1)
Alternative Name:	Frizzled-1/FZD1 (Fzd1 Products)

Target Details

Background:	Description: This protein belongs to the G-protein coupled receptor Fz/Smo family. FZD1 contains a signal peptide, a cysteine-rich domain in the N-terminal extracellular region, 7 transmembrane domains, and a C-terminal PDZ domain-binding motif. FZD1 is expressed in adult heart, placenta, lung, kidney, pancreas, prostate, and ovary and in fetal lung and kidney. Frizzled is a family of G protein-coupled receptor proteins that serve as receptors in the Wnt signaling pathway and other signaling pathways. When activated, Frizzled leads to activation of Dishevelled in the cytosol. Frizzled proteins and the genes encoding them have been identified in an array of animals, from sponges to humans. Frizzled proteins play key roles in governing cell polarity, embryonic development, formation of neural synapses, cell proliferation, and many other processes in developing and adult organisms. Most of frizzled receptors are coupled to the beta-catenin canonical signaling pathway, which leads to the activation of disheveled proteins, inhibition of GSK-3 kinase, nuclear accumulation of beta-catenin and activation of Wnt target genes. Name: FZD1
Gene ID:	8321
UniProt:	Q9UP38
Pathways:	WNT Signaling, Asymmetric Protein Localization

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.