

Recombinant Human FZD10 protein (Fc Chimera)
ab198679

1 Image

Description	
Product name	Recombinant Human FZD10 protein (Fc Chimera)
Purity	> 90 % SDS-PAGE.
Expression system	HEK 293 cells
Accession	<u>Q9ULW2</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	ISSMDMERPGDGKQCQPIEIPMCKDIGYNMTRMPNLMGHEN QREAAIQLHE FAPLVEYGCHGHLRFFLCSLYAPMCTEQVSTPIPACRVMC EQARLKCSPI MEQFNFKWPDSLDCRKLPNKNDPNYLCMEAPNNGSDEP TRGIEGRMDPKS CDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEV TCVVVDVSHE DPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTV LHQDWLNGKEY KCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELT KNQVSLTCLV KGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYS KLTVDKSRWQQ GNVFSCSVMHEALHNHYTQKSLSLSPGK
Predicted molecular weight	43 kDa including tags
Amino acids	21 to 161
Additional sequence information	Recombinant fragment of human Frizzled 10 (amino acids 21-161) fused at C terminal with Fc portion of Human IgG1 (amino acids 100-330).

Specifications

Our **Abpromise guarantee** covers the use of **ab198679** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid
Additional notes	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling. This product was previously labelled as Frizzled 10

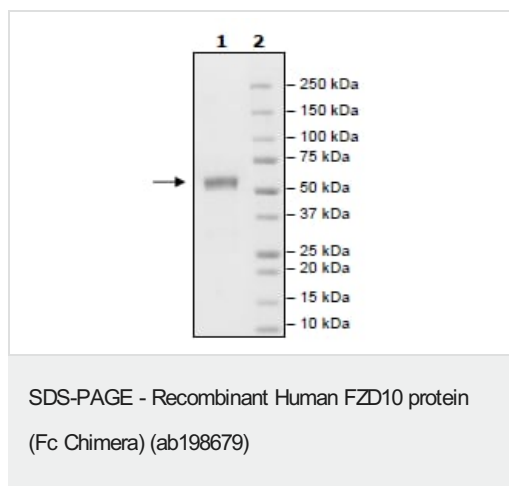
Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.48% Tris, 0.64% Sodium chloride, 0.02% Potassium chloride, 20% Glycerol (glycerin, glycerine) Sterile-filtered (0.2 µm)
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General Info

Function	Receptor for Wnt proteins. 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. A second signaling pathway involving PKC and calcium fluxes has been seen for some family members, but it is not yet clear if it represents a distinct pathway or if it can be integrated in the canonical pathway, as PKC seems to be required for Wnt-mediated inactivation of GSK-3 kinase. Both pathways seem to involve interactions with G-proteins. May be involved in transduction and intercellular transmission of polarity information during tissue morphogenesis and/or in differentiated tissues.
Tissue specificity	Highest levels in the placenta and fetal kidney, followed by fetal lung and brain. In adult brain, abundantly expressed in the cerebellum, followed by cerebral cortex, medulla and spinal cord; very low levels in total brain, frontal lobe, temporal lobe and putamen. Weak expression detected in adult brain, heart, lung, skeletal muscle, pancreas, spleen and prostate.
Sequence similarities	Belongs to the G-protein coupled receptor Fz/Smo family. Contains 1 FZ (frizzled) domain.
Domain	Lys-Thr-X-X-X-Trp motif interacts with the PDZ domain of Dvl (Disheveled) family members and is involved in the activation of the Wnt/beta-catenin signaling pathway. The FZ domain is involved in binding with Wnt ligands.
Post-translational modifications	Ubiquitinated by ZNRF3, leading to its degradation by the proteasome.
Cellular localization	Cell membrane.

Images



4-20% SDS-PAGE analysis of ab198679 (2 µg) with Coomassie staining.

Note: This protein runs at a higher apparent M.W. by SDS-PAGE due to glycosylation.

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