

Product datasheet

Recombinant Human Frizzled 2/FZD2 protein ab191625

[1 Image](#)

Description

Product name	Recombinant Human Frizzled 2/FZD2 protein		
Purity	> 95 % SDS-PAGE.		
Endotoxin level	< 1.000 Eu/g		
Expression system	HEK 293 cells		
Accession	<u>Q14332</u>		
Protein length	Protein fragment		
Animal free	No		
Nature	Recombinant		
Species	Human		
Sequence	QFHGEKGISIPDHGFCQPISIPLCIDIAYNQTIMPNLLGHTNQ EDAGLEV HQFYPLVKVQCSPFLRFFLCSEMYAPVCTVLEQAIPPCRSI CERARQGCEA LMNKFQGFQWPERLRCEHFPRHGAEQICVGQNHS		
Predicted molecular weight	42 kDa including tags		
Amino acids	24 to 156		
Additional sequence information	Fused with Fc fragment of Human IgG1 at the C terminus		

Specifications

Our **Abpromise guarantee** covers the use of **ab191625** 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	Lyophilized
Additional notes	This product was previously labelled as Frizzled 2

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at 4°C prior to reconstitution. Store at -80°C. Avoid freeze / thaw cycle.

pH: 7.4

Constituents: 0.61% Tris, 0.75% Glycine, Sodium chloride, L-Arginine

Lyophilized from 0.22 µm filtered solution. Normally trehalose is added as protectant before lyophilization.

Reconstitution

Reconstitute with sterile deionized water to a concentration of 200 µg/ml.

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

Widely expressed. In the adult, mainly found in heart, placenta, skeletal muscle, lung, kidney, pancreas, prostate, testis, ovary and colon. In the fetus, expressed in brain, lung and kidney. Low levels in fetal liver.

Sequence similarities

Belongs to the G-protein coupled receptor Fz/Smo family.
Contains 1 FZ (frizzled) domain.

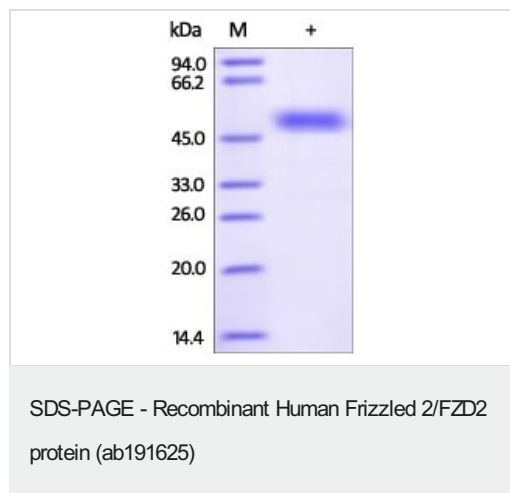
Domain

Lys-Thr-X-X-X-Trp motif is involved in the activation of the Wnt/beta-catenin signaling pathway. The FZ domain is involved in binding with Wnt ligands.

Cellular localization

Membrane.

Images



SDS-PAGE analysis of DTT-reduced ab191625, stained overnight with Coomassie Blue. DTT-reduced Frizzled 2/FZD2 migrates as 45-50 kDa due to glycosylation.

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