# Recombinant Human Frizzled-4/FZD4/CD344 Protein

## Catalog No.: RP01377



### Sequence Information

**Species**
Human

**Gene ID**
8322

**Swiss Prot**
Q9ULV1

**Tags**
C-hFc&His

**Synonyms**
FZD4,CD344,EVR1,FEVR,FZD4S,Fz-4,Fz4,FzE4,GPCR,hFz4

### Product Information

**Source**
HEK293 cells

**Purification**
≥ 95 % as determined by SDS-PAGE.

**Calculated MW**
43.02 kDa

**Observed MW**
55-60 kDa

**Endotoxin**
< 0.1 EU/μg of the protein by LAL method.

**Formulation**
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

**Reconstitution**
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex 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.

### Background

Frizzled-4 (FZD4) is also known as FzE4, CD344, which belongs to the G-protein coupled receptor Fz/Smo family. 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.Familial exudative vitreoretinopathy (FEVR) is a hereditary blinding disorder that features defects in retinal vascular development. Mutations in FZD4 are known to cause autosomal dominant exudative vitreoretinopathy (EVR1). The mutations in FZD4 are associated with the phenotypes of retinal folds or ectopic macula in FEVR.

### Basic Information

**Description**
Recombinant Human Frizzled-4/FZD4/CD344 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Phe37-Glu180) of human FZD4/CD344/EVR1 (Accession #NP_036325.2) fused with a hFc, 6×His tag at the C-terminus.

**Activity**

**Shipping**
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

**Storage**
Store at -20℃

**Operational Notes**
For your safety and health, please wear a lab coat and disposable gloves for handling.

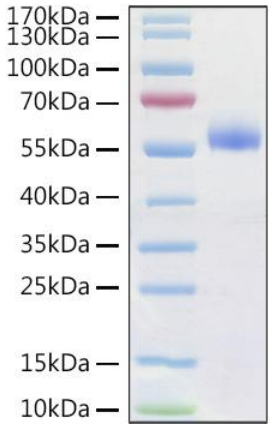
**Contact**

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn



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## Validation Data




Recombinant Human Frizzled-4/FZD4/CD344 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.