

# Recombinant Human RNF43 Protein

Catalog No.: RP02777 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	54894	Q68DV7

### Tags

C-hFC

### Synonyms

URCC; SSPCS; RNF124

## Product Information

Source	Purification
HEK293 cells	> 95% as determined by HPLC

### Endotoxin

<1EU/μg

### Formulation

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

### Reconstitution

Centrifuge the tube 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

## Contact

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## Background

RNF43 (E3 ubiquitin-protein ligase RNF43 or RING-type E3 ubiquitin transferase RNF43) functions as a tumor suppressor, by exerting a predominant negative feedback mechanism in the Wnt/β-catenin signaling pathway. RNF43 inhibits Wnt/beta-catenin signaling by ubiquitinating Frizzled receptor and targeting it to the lysosomal pathway for degradation.

## Basic Information

### Description

Recombinant Human RNF43 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly24-Tyr197) of human RNF43 (Accession #NP\_001292473.1) fused with a hFc tag at the C-terminus.

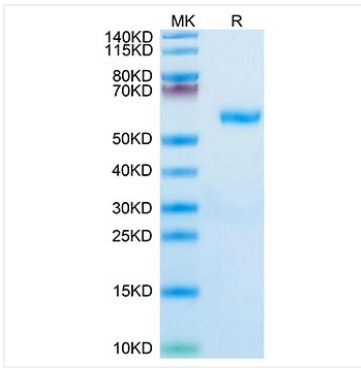
### Bio-Activity

1. Immobilized Human R spondin 1, His Tag at 5 μg/mL (100μL/well) on the plate. Dose response curve for Human RNF34, hFc Tag with the EC<sub>50</sub> of 0.4 μg/mL determined by ELISA. 2. Immobilized Human R-Spondin 3, His Tag at 1 μg/mL (100μL/well) on the plate. Dose response curve for Human RNF43, hFc Tag with the EC<sub>50</sub> of 16.1 ng/mL determined by ELISA.

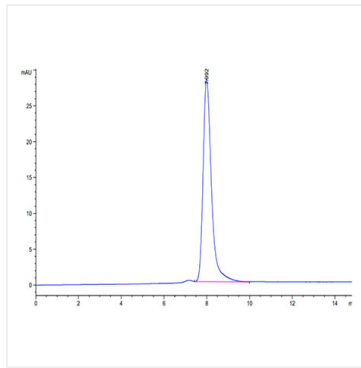
### Storage

Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

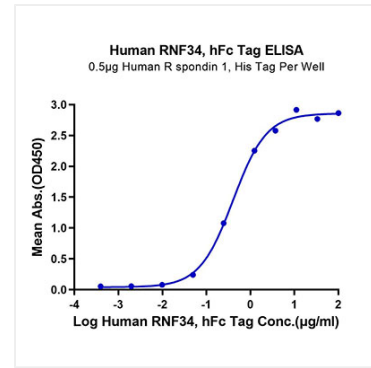
## Validation Data



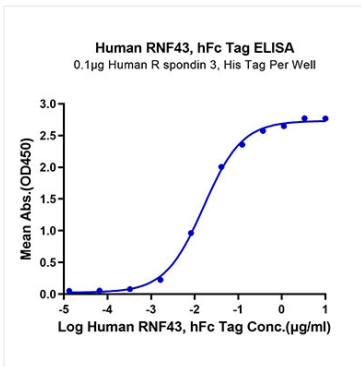
Human RNF43 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Human RNF43 is greater than 95% as determined by SEC-HPLC.



Immobilized Human R spondin 1, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human RNF34, hFc Tag with the EC<sub>50</sub> of 0.4µg/ml determined by ELISA.



Immobilized Human R-Spondin 3, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human RNF43, hFc Tag with the EC<sub>50</sub> of 16.1ng/ml determined by ELISA.