

Catalog No.: RP02953 **Recombinant**

Species	Gene ID	Swiss Prot
Human	116844	P02750

C-His

Synonyms
LRG1; LRG Leucine-rich alpha-2-glycoprotein; LRG

Source HEK293 cells	Purification ≥ 95 % as determined by SDS- PAGE
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Calculated MW	Observed MW
35.4 kDa	45-60 kDa

< 0.01 EU/μg of the protein by LAL method.

Supplied as 0.22µm filtered solution in PBS, pH 7.4.

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

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LRG1 is a Protein Coding gene. LRG1 belongs to the leucine-rich repeat (LRR) family. Members of this family are involved in protein-protein interaction, signal transduction, and cell adhesion and development. LRG1 is expressed during granulocyte differentiation. It contains 4 LIM zinc-binding domains and 1 Rho-GAP domain. LRG1 is involved in promoting neovascularization (new blood vessel growth) by causing a switch in transforming growth factor-beta (TGFbeta) signaling in endothelial cells. LRG1 binds to the accessory receptor endoglin and promotes signaling via the ALK1-Smad1/5/8 pathway. It may be a potential therapeutic target for the treatment of diseases where there is aberrant neovascularization. Diseases associated with LRG1 include Appendicitis and Normal Pressure Hydrocephalus.

Recombinant Human LRG1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val36-Gln347) of Human LRG1 fused with His tag at the C-terminus.

Measured by its binding ability in a functional ELISA. Immobilized Human LRG1(Catalog: RP02953) at 1μg/mL (100μL/well) can bind LRG1 Rabbit pAb (Catalog: A7850) with a linear range of 0.128-5.5 ng/mL.

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.

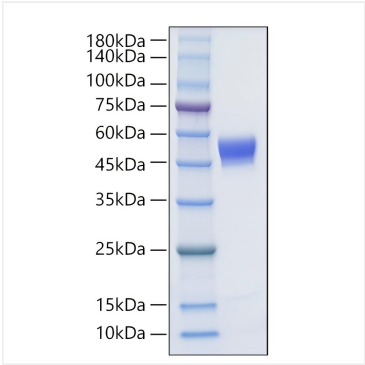
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

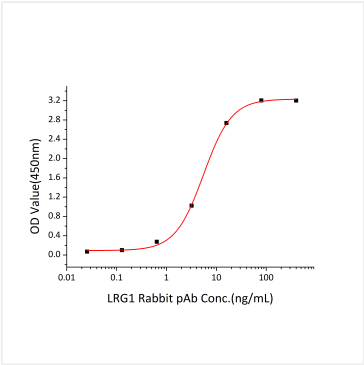
Avoid repeated freeze/thaw cycles.

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

Validation Data



Recombinant Human LRG1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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