

Recombinant Human LRP6 protein, Mouse IgG Fc-tagged

Cat. No. LRP6-552H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human LRP6 (Ala20-Pro630) protein was fused to mouse IgG2a Fc tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Ala20-Pro630
Description	LRP6 is a transmembrane low-density lipoprotein receptor that shares a similar structure with LRP5. Low-density lipoprotein receptor-related protein 6 is a key component of the LRP5/LRP6/Frizzled co-receptor group that is involved in canonical Wnt pathway. The Wnt-induced Fzd/LRP6 coreceptor complex recruits DVL1 polymers to the plasma membrane which, in turn, recruits the AXIN1/GSK3B-complex to the cell surface promoting the formation of signalsomes and inhibiting AXIN1/GSK3-mediated phosphorylation and destruction of beta-catenin.
Predicted N Terminal	Ala20
Form	Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 95.8 kDa. The protein migrates as 55 kDa and 110 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

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Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	>90% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	LRP6
Official Symbol	LRP6
Synonyms	LRP6; low density lipoprotein receptor-related protein 6; low-density lipoprotein receptor-related protein 6; LRP-6; ADCAD2; FLJ90062; FLJ90421
Gene ID	4040
mRNA Refseq	NM_002336
Protein Refseq	NP_002327
MIM	603507

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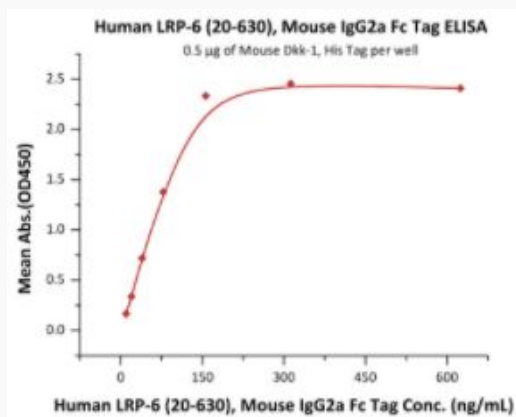
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UniProt ID

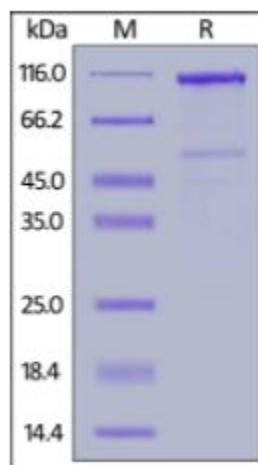
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Bioactivity-ELISA of LRP6-552H



Immobilized Mouse Dkk-1, His Tag at 5 µg/mL (100 µL/well) can bind Human LRP-6 (20-630), Mouse IgG2a Fc Tag with a linear range of 10-78 ng/mL (QC tested).

SDS-PAGE of LRP6-552H



Human LRP-6 (20-630), Mouse IgG2a Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the

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protein is greater than 90%.

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