

Product datasheet for TA354563

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

LRP6 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: Dot, WB

Recommended Dilution: WB 0.1-1 μg/ml ELISA 0.01-0.1 μg/ml IP 2-5 μg/ml IHC 2-10 μg/ml FC 5-10 μg/ml

Reactivity: Human, Rat, Mouse

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Immunogen: A synthetic peptide corresponding to the epitope KGTYF at a phosphorylation threonine1479

in LRP6 protein

Formulation: This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing

antibody stabilizer.

Purification: The Rabbit IgG is purified by site-modified Epitope Affinity Purification.

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 180 kDa

Gene Name: LDL receptor related protein 6

Database Link: NP 002327

Entrez Gene 16974 MouseEntrez Gene 312781 RatEntrez Gene 4040 Human

<u>075581</u>





Background:

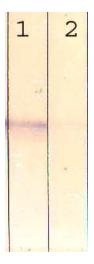
Low-desnsity lipoprotein receptor (LDLR)-related protein 6 (LRP6) is a member of the LDLR family which consists of cell surface proteins involved in receptor-mediated endocytosis of specific ligands. LRP5 cuases several human diseases including bone mineral density variability1, endosteal hyperostosis, autosomal dominant osteopetrosis type I etc. The V171 mutation in LRP5 causes high bone density by impairing the action of a normal antagonist of the Wnt pathway and thus increasing Wnt signaling. The activity of LRP5 and LRP6 can be inhibited by binding of some members of Dickkopf (DKK) family proteins. Upon stimulation with Wnt, LRP5 and LRP6 are phosphorylated at multiple sites including Thr 1479, Ser 1490 and Thr 1492 by kinases such as GSK-3 and CK1.

Synonyms: ADCAD2; STHAG7

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Wnt signaling pathway

Product images:



WB: The cell lysate derived from conditioned 3T3 was immunoprobed by Rabbit anti-LRP6 (pT1479) at 1:500. An immunoreactive band is observed around \sim (1). This band is abolished by preincubation with immunizing peptide (2).



DB: 1 ug peptide was blot onto NC membrane (ANon-related phosphospecific peptide; B-LRP6 (pT1479); C: Non-Phosphopeptide LRP6) was blotted by Rabbit anti-LRP6 (pT1479) a 1:2000 dilution.