

Product datasheet for **TA354563**

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 KGTYP 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 Mouse Entrez Gene 312781 Rat Entrez Gene 4040 Human O75581



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Background:

Low-density 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 causes 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 ~ (1). This band is abolished by pre-incubation with immunizing peptide (2).



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