

## Product datasheet for **TA354560**

### LRP5 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 KATLY at a phosphorylation threonine1492 in LRP5 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:	175 kDa
Gene Name:	LDL receptor related protein 5
Database Link:	<a href="#">NP_001278831</a> <a href="#">Entrez Gene 16973 Mouse</a> <a href="#">Entrez Gene 293649 Rat</a> <a href="#">Entrez Gene 4041 Human</a> <a href="#">O75197</a>



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**Background:**

Low-density lipoprotein receptor (LDLR)-related protein 5 (LRP5) 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 variability<sup>1</sup>, 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:**

BMND1; EVR1; EVR4; HBM; LR3; LRP-5; LRP7; OPPG; OPS; OPTA1; VBCH2

**Protein Families:**

Druggable Genome, Transmembrane

**Protein Pathways:**

Wnt signaling pathway

**Product images:**

WB: The cell lysate derived from conditioned LRP5 transfected HEK293 was immunoprobed by Rabbit anti-LRP5 (pT1492) 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- LRP5 (pT1492); B-LRP5 (Nonphospho); C: Nonrelated Phosphopeptide) was blotted by Rabbit anti-LRP5 (pT1479) a 1:2000