



Anti-LRP5 (aa 41-130) polyclonal antibody (DPAB-DC1873)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Antigen Description | This gene encodes a transmembrane low-density lipoprotein receptor that binds and internalizes ligands in the process of receptor-mediated endocytosis. This protein also acts as a co-receptor with Frizzled protein family members for transducing signals by Wnt proteins and was originally cloned on the basis of its association with type 1 diabetes mellitus in humans. This protein plays a key role in skeletal homeostasis and many bone density related diseases are caused by mutations in this gene. Mutations in this gene also cause familial exudative vitreoretinopathy. Alternative splicing results in multiple transcript variants. |
| Immunogen | LRP5 (NP_002326.1, 41 a.a. ~ 130 a.a) partial recombinant protein with GST tag. The sequence is RDVRLVDAGGVKLESTIVSGLEAAVDFQFSKGAVYWTDVSEEAIKQTYLNQTGAQV NVVISGLVSPDGLACDWVGKKLYWTDSETN |
| Source/Host | Mouse |
| Species Reactivity | Human |
| Conjugate | Unconjugated |
| Applications | WB (Recombinant protein), ELISA, |
| Size | 50 µl |
| Buffer | 50 % glycerol |
| Preservative | None |
| Storage | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

GENE INFORMATION

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| Gene Name | LRP5 low density lipoprotein receptor-related protein 5 [Homo sapiens (human)] |
| Official Symbol | LRP5 |
| Synonyms | LRP5; low density lipoprotein receptor-related protein 5; HBM; LR3; OPS; EVR1; EVR4; LRP7; OPPG; BMND1; LRP-5; OPTA1; VBCH2; low-density lipoprotein receptor-related protein 5; low density lipoprotein receptor-related protein 7; |
| Entrez Gene ID | 4041 |
| Protein Refseq | NP_001278831 |
| UniProt ID | Q75197 |
| Chromosome Location | 11q13.4 |
| Pathway | MicroRNAs in cardiomyocyte hypertrophy; Signal Transduction; TCF dependent signaling in response to WNT; Wnt Signaling Pathway and Pluripotency |
| Function | Wnt-activated receptor activity; Wnt-protein binding; coreceptor activity; protein binding |
