

Low-density lipoprotein receptor-related protein 5

Catalog No: #AP79376

Package Size: #AP79376-1 50ug #AP79376-2 100ug #AP79376-3 1mg

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Description

Product Name	Low-density lipoprotein receptor-related protein 5
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% by SDS-PAGE
Species Reactivity	Human
Immunogen Description	CARQQAFRNKTVTADNTLH
Other Names	LR3,LRP7
Accession No.	O75197Gene name:LRP5
Uniprot	O75197
GeneID	4041;
Tag Info	His
Formulation	50mM NaH ₂ PO ₄ , 500mM NaCl Buffer with 500mM Imidazole,10%glycerol(PH8.0)
Storage	Store at -20C. (Avoid repeated freezing and thawing.)Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Component of the Wnt-Fzd-LRP5-LRP6 complex that triggers beta-catenin signaling through inducing aggregation of receptor-ligand complexes into ribosome-sized signalsomes. Cell-surface coreceptor of Wnt/beta-catenin signaling, which plays a pivotal role in bone formation. Plays a role in norrin (NDP) signal transduction (PubMed:27228167). 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. Appears be required for postnatal control of vascular regression in the eye (By similarity). Required for posterior patterning of the epiblast during gastrulation.

References

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Note: This product is for in vitro research use only