

Anti-LRP6 Rabbit Monoclonal Antibody

Catalog # ABO15551

Product Information

Application	WB, IF, ICC, FC
Primary Accession	O75581
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-LRP6 Rabbit Monoclonal Antibody . Tested in WB, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

Additional Information

Gene ID	4040
Other Names	Low-density lipoprotein receptor-related protein 6, LRP-6, LRP6
Calculated MW	180429
Application Details	WB 1:500-1:2000 ICC/IF 1:50-1:200 FC 1:50
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: 21L27
Immunogen	A synthesized peptide derived from human LRP6
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	LRP6
Function	Component of the Wnt-Fzd-LRP5-LRP6 complex that triggers beta-catenin signaling through inducing aggregation of receptor-ligand complexes into ribosome-sized signalosomes (PubMed: 11357136 , PubMed: 11448771 , PubMed: 15778503 , PubMed: 16341017 , PubMed: 16513652 ,

PubMed:[17326769](#), PubMed:[17400545](#), PubMed:[19107203](#), PubMed:[19293931](#), PubMed:[19801552](#), PubMed:[28341812](#), PubMed:[34896607](#)). Cell-surface coreceptor of Wnt/beta-catenin signaling, which plays a pivotal role in various processes including retinal angiogenesis and bone formation (PubMed:[11357136](#), PubMed:[11448771](#), PubMed:[15778503](#), PubMed:[16341017](#), PubMed:[16513652](#), PubMed:[17326769](#), PubMed:[17400545](#), PubMed:[19107203](#), PubMed:[19293931](#), PubMed:[19801552](#), PubMed:[28341812](#), PubMed:[34896607](#)). 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 signalosomes and inhibiting AXIN1/GSK3-mediated phosphorylation and destruction of beta-catenin (PubMed:[16513652](#)). Required for posterior patterning of the epiblast during gastrulation (By similarity).

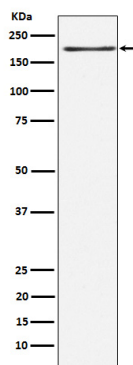
Cellular Location

Cell membrane; Single-pass type I membrane protein. Endoplasmic reticulum. Membrane raft. Note=On Wnt signaling, undergoes a cycle of caveolin- or clathrin-mediated endocytosis and plasma membrane location. Released from the endoplasmic reticulum on palmitoylation Mono-ubiquitination retains it in the endoplasmic reticulum in the absence of palmitoylation. On Wnt signaling, phosphorylated, aggregates and colocalizes with AXIN1 and GSK3B at the plasma membrane in LRP6- signalosomes (By similarity). Chaperoned to the plasma membrane by HSP90B1 and MESD (PubMed:[23572575](#)). {ECO:0000250 | UniProtKB:O88572, ECO:0000269 | PubMed:[23572575](#)}

Tissue Location

Widely coexpressed with LRP5 during embryogenesis and in adult tissues

Images



Western blot analysis of LRP6 expression in Jurkat cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.