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LRP6 Antibody

Rabbit mAb Catalog # AP92131

Product Information

Application WB, IF, FC, ICC **Primary Accession** 075581

Reactivity Rat, Human, Mouse

Clonality Monoclonal Other Names LRP6;

IsotypeRabbit IgGHostRabbitCalculated MW180429

Additional Information

Dilution WB 1:500~1:2000 ICC/IF 1:50~1:200 FC 1:50

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human LRP6

Description 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.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium

azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

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:<u>15778503</u>, PubMed:<u>16341017</u>, PubMed:<u>16513652</u>, PubMed:<u>17326769</u>, PubMed:<u>17400545</u>, PubMed:<u>19107203</u>,

PubMed:<u>19293931</u>, PubMed:<u>19801552</u>, PubMed:<u>28341812</u>). Cell-surface coreceptor of Wnt/beta- catenin signaling, which plays a pivotal role in bone formation (PubMed:<u>11357136</u>, PubMed:<u>11448771</u>, PubMed:<u>15778503</u>,

PubMed:16341017, PubMed:16513652, PubMed:17326769, PubMed:17400545, PubMed:19107203, PubMed:19293931,

PubMed: 19801552, PubMed: 28341812). 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).

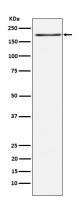
Cellular Location

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'.