

Anti-LRP6 (pT1479) Antibody

Rabbit polyclonal antibody to LRP6 (pT1479)

Catalog # AP61279

Product Information

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|-------------------|------------------------|
| Application | WB |
| Primary Accession | O75581 |
| Other Accession | O88572 |
| Reactivity | Human, Mouse |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 180429 |

Additional Information

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|--------------------|---|
| Gene ID | 4040 |
| Other Names | Low-density lipoprotein receptor-related protein 6; LRP-6 |
| Target/Specificity | Recognizes endogenous levels of LRP6 (pT1479) protein. |
| Dilution | WB~~WB (1/500 - 1/1000) |
| Format | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide. |
| Storage | Store at -20 °C.Stable for 12 months from date of receipt |

Protein Information

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|----------|---|
| Name | LRP6 |
| Function | <p>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). Cell-surface coreceptor of Wnt/beta- catenin signaling, which plays a pivotal role in bone formation (PubMed:11357136, PubMed:11448771, PubMed:15778503, 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).</p> |

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

Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human LRP6 (pT1479). The exact sequence is proprietary.

Images



Western blot analysis of LRP6 (pT1479) expression in A375 (A) whole cell lysates.

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