

LRP6 Rabbit pAb

CatalogNo: YN0042

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB, ELISA

MW

- 177kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

ELISA 1:5000-20000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human protein . at AA range: 1420-1500

Specificity LRP6 Polyclonal Antibody detects endogenous levels of protein.

Target Information

Gene name LRP6

Protein Name Low-density lipoprotein receptor-related protein 6 (LRP-6)

| Organism | Gene ID | UniProt ID |
|----------|-------------------------|--------------------------|
| Human | 4040 ; | O75581 ; |
| Mouse | 16974 ; | O88572 ; |

Cellular Localization

Cell membrane ; Single-pass type I membrane protein. Endoplasmic reticulum . Membrane raft . 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-signalsomes. Chaperoned to the plasma membrane by MESD (By similarity). .

Tissue specificity Widely coexpressed with LRP5 during embryogenesis and in adult tissues.

Function

Disease:Defects in LRP6 are the cause of autosomal dominant coronary artery disease type 2 (ADCAD2) [MIM:610947].,Domain:The YWTD-EGF-like domains 1 and 2 are required for the interaction with Wnt-frizzled complex. The YWTD-EGF-like domains 3 and 4 are required for the interaction with DKK1.,Function:Essential for the Wnt/beta catenin signaling pathway, probably by acting as a coreceptor together with Frizzled for Wnt. Specific high-affinity receptor for DKK1 and DKK2, but not DKK3. The interaction with DKK1 blocks LRP6-mediated Wnt/beta catenin signaling via LRP6 removal via Kremen proteins-mediated endocytosis.,similarity:Belongs to the LDLR family.,similarity:Contains 20 LDL-receptor class B repeats.,similarity:Contains 3 LDL-receptor class A domains.,similarity:Contains 4 EGF-like domains.,subunit:Interacts with RSPO1 and RSPO3 (By similarity). Interacts with FZD5. Essential component of the Wnt7 receptor complex. Wnt7A interacts with the LRP6/FZD5 complex. This interaction is antagonized by DKK1 and DKK3.,tissue specificity:Widely co-expressed with LRP5 during embryogenesis and in adult tissues.,

Validation Data

Contact information

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