

LRP6 (Phospho Ser1490) Rabbit pAb

CatalogNo: YP1387

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC

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

IHC 1:50-300

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized phospho peptide around human LRP6 (Ser1490)

Specificity This antibody detects endogenous levels of Human LRP6 (phospho-Ser1490). The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): PPsPA

| Target Information

Gene name LRP6

Protein Name LRP6 (Ser1490)

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

Cellular Localization

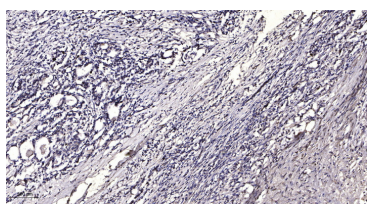
Cell membrane ; Single-pass type I membrane protein. Endoplasmic reticulum . Membrane raft . On Wnt signaling , undergoes a cycle of caveolin- or clathrin-mediated endocytosis and plasma membrane location. Released from the endoplasmic reticulum on palmitoylation. Mono-ubiquitination retains it in the 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



Immunohistochemical analysis of paraffin-embedded human Gastric adenocarcinoma. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 45min).

| Contact information

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