Best Tools for immunology Research

LRP6 (Phospho Ser1490) rabbit pAb

Catalog No :	YP1387
Reactivity :	Human;Rat;Mouse;
Applications :	WB;IHC
Target :	LRP6
Fields :	>>mTOR signaling pathway;>>Wnt signaling pathway;>>Parathyroid hormone synthesis, secretion and action;>>Alzheimer disease;>>Pathways of neurodegeneration - multiple diseases;>>Pathways in cancer;>>Breast cancer;>>Hepatocellular carcinoma;>>Gastric cancer
Gene Name :	LRP6
Protein Name :	LRP6 (Ser1490)
Human Gene Id :	4040
Human Swiss Prot No :	O75581
Mouse Gene Id :	16974
Mouse Swiss Prot No :	O88572
Immunogen :	Synthesized phosho peptide around human LRP6 (Ser1490)
Specificity :	This antibody detects endogenous levels of Human LRP6 (phospho-Ser1490)
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000;IHC 1:50-300
Purification :	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.

Concentration : 1 mg/ml

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

Observed Band : 177kD

Cell Pathway : WNT;WNT-T CELL

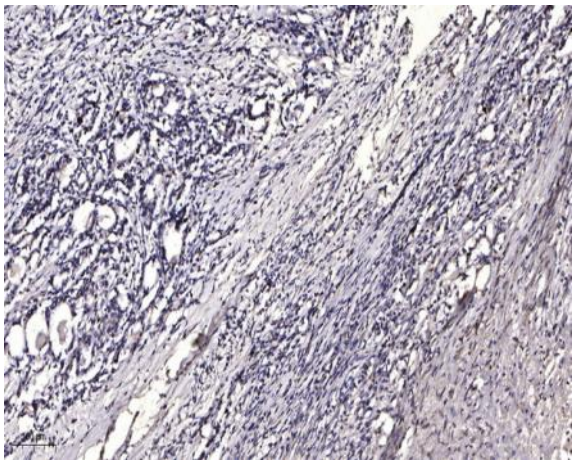
Background : This gene encodes a member of the low density lipoprotein (LDL) receptor gene family. LDL receptors are transmembrane cell surface proteins involved in receptor-mediated endocytosis of lipoprotein and protein ligands. The protein encoded by this gene functions as a receptor or, with Frizzled, a co-receptor for Wnt and thereby transmits the canonical Wnt/beta-catenin signaling cascade. Through its interaction with the Wnt/beta-catenin signaling cascade this gene plays a role in the regulation of cell differentiation, proliferation, and migration and the development of many cancer types. This protein undergoes gamma-secretase dependent RIP- (regulated intramembrane proteolysis) processing but the precise locations of the cleavage sites have not been determined.[provided by RefSeq, Dec 2009],

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 componen

Subcellular Location : 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). .

Expression : Widely coexpressed with LRP5 during embryogenesis and in adult tissues.

Products Images



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