Anti-Phospho-LRP6 (Ser1490) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015292

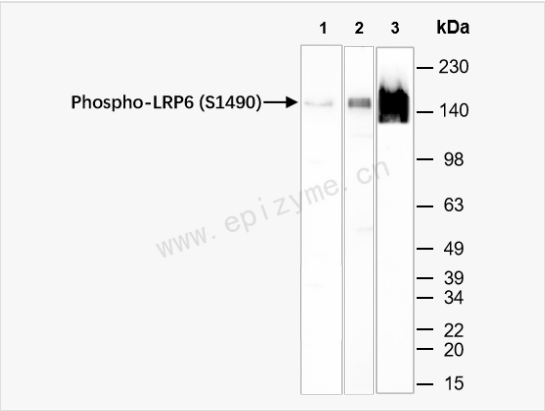
Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	80S10F51
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Phospho-LRP6 (S1490)
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-LRP6 (Ser1490) Rabbit mAb [80S10F51] is for research use only and not for use in diagnostic or therapeutic procedures.

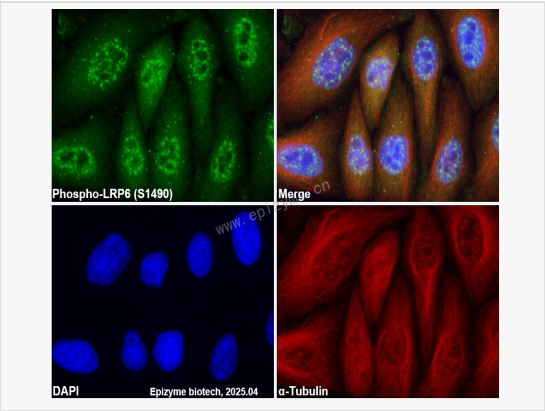
Protein Information

Synonyms	ADCAD2; C030016K15Rik; Cd; FLJ90062; FLJ90421; LDL receptor related protein 6; Low density lipoprotein receptor related protein 6; Low density lipoprotein receptor related protein 6; LRP 6; LRP6; LRP6 HUMAN; OTTHUMP00000238979; OTTHUMP00000238980; OTTHUMP00000238982; STHAG7.
Calculated MW	Calculated MW: 180 kDa; Observed MW: 180 kDa
Uniprot ID	O75581
Gene ID	4040
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]
Cellular Location	Membrane. Endoplasmic reticulum. 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.

Validation Images



Western Blot - Anti-Phospho-LRP6 (Ser1490) Rabbit mAb [80S10F51]
All lanes: R015292 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma
Lane 2: Mouse brain whole tissue lysates
Lane 3: Rat brain whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 180 kDa
Observed band size: 180 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-Phospho-LRP6 (Ser1490) Rabbit mAb [80S10F51]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R015292 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).