

**Phospho-LRP6 (S1490) Antibody**  
**Rabbit mAb**  
**Catalog # AP93146**

## Specification

## Phospho-LRP6 (S1490) Antibody - Product Information

Application	WB
Primary Accession	<a href="#">Q75581</a>
Clonality	Monoclonal
<b>Other Names</b>	
Low-density lipoprotein receptor-related protein 7;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	180429 Da

### Phospho-LRP6 (S1490) Antibody - Additional Information

Dilution	<b>WB~~1:1000</b>
Purification	<b>Affinity-chromatography</b>
Immunogen	<b>A synthesized peptide derived from human Phospho-LRP6 (S1490)</b>
Description	<b>Acts as a coreceptor with members of the frizzled family of seven-transmembrane spanning receptors to transduce signal by Wnt proteins (PubMed:11336703, PubMed:11448771, PubMed:15778503, PubMed:11719191, PubMed:15908424, PubMed:16252235).</b>
Storage Condition and Buffer	<b>Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.</b>

## Phospho-LRP6 (S1490) Antibody - Protein Information

**Name** LRP6

## Function

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:<a href="http://www.uniprot.org/citations/11357136" target="\_blank">11357136</a>, PubMed:<a href="http://www.uniprot.org/citations/11448771" target="\_blank">11448771</a>, PubMed:<a href="http://www.uniprot.org/citations/15778503" target="\_blank">15778503</a>, PubMed:<a href="http://www.uniprot.org/citations/16341017" target="\_blank">16341017</a>, PubMed:<a href="http://www.uniprot.org/citations/16513652" target="\_blank">16513652</a>, PubMed:<a href="http://www.uniprot.org/citations/17326769" target="\_blank">17326769</a>, PubMed:<a href="http://www.uniprot.org/citations/17400545" target="\_blank">17400545</a>, PubMed:<a

href="http://www.uniprot.org/citations/19107203" target="\_blank">19107203</a>, PubMed:<a href="http://www.uniprot.org/citations/19293931" target="\_blank">19293931</a>, PubMed:<a href="http://www.uniprot.org/citations/19801552" target="\_blank">19801552</a>, PubMed:<a href="http://www.uniprot.org/citations/28341812" target="\_blank">28341812</a>). Cell-surface coreceptor of Wnt/beta- catenin signaling, which plays a pivotal role in bone formation (PubMed:<a href="http://www.uniprot.org/citations/11357136" target="\_blank">11357136</a>, PubMed:<a href="http://www.uniprot.org/citations/11448771" target="\_blank">11448771</a>, PubMed:<a href="http://www.uniprot.org/citations/15778503" target="\_blank">15778503</a>, PubMed:<a href="http://www.uniprot.org/citations/16341017" target="\_blank">16341017</a>, PubMed:<a href="http://www.uniprot.org/citations/16513652" target="\_blank">16513652</a>, PubMed:<a href="http://www.uniprot.org/citations/17326769" target="\_blank">17326769</a>, PubMed:<a href="http://www.uniprot.org/citations/17400545" target="\_blank">17400545</a>, PubMed:<a href="http://www.uniprot.org/citations/19107203" target="\_blank">19107203</a>, PubMed:<a href="http://www.uniprot.org/citations/19293931" target="\_blank">19293931</a>, PubMed:<a href="http://www.uniprot.org/citations/19801552" target="\_blank">19801552</a>, PubMed:<a href="http://www.uniprot.org/citations/28341812" target="\_blank">28341812</a>). 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:<a href="http://www.uniprot.org/citations/16513652" target="\_blank">16513652</a>). 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

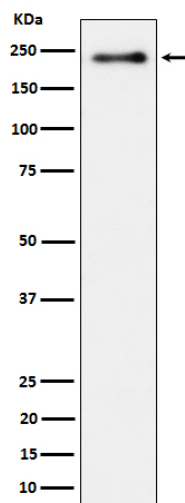
#### Phospho-LRP6 (S1490) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Phospho-LRP6 (S1490) Antibody - Images





Western blot analysis of Phospho-LRP6 (S1490) expression in heLa treated with Calyculin cell lysate.