

LRP6 Antibody (C-term T1546)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6158a

Specification

LRP6 Antibody (C-term T1546) - Product Information

Application	WB, IHC-P,E
Primary Accession	O75581
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Antigen Region	1531-1560

LRP6 Antibody (C-term T1546) - Additional Information

Gene ID 4040

Other Names

Low-density lipoprotein receptor-related protein 6, LRP-6, LRP6

Target/Specificity

This LRP6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1531-1560 amino acids from the C-terminal region of human LRP6.

Dilution

WB~~1:1000
IHC-P~~1:10~50

Format

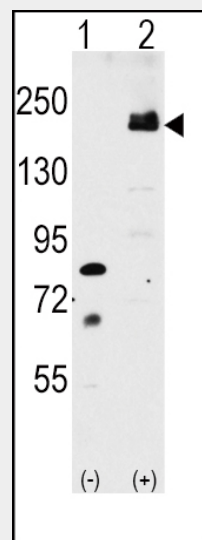
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

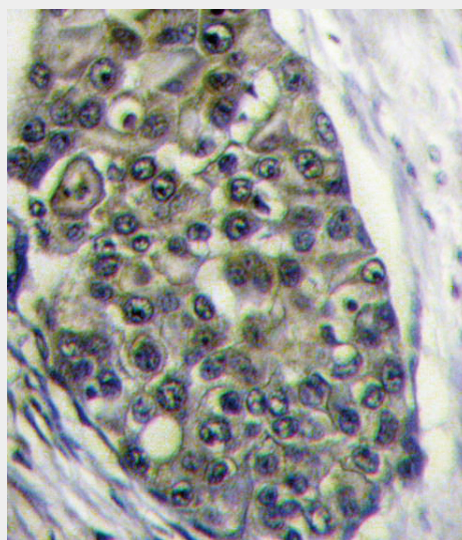
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

LRP6 Antibody (C-term T1546) is for research use only and not for use in



Western blot analysis of LRP6 (arrow) using rabbit polyclonal LRP6 Antibody (C-term T1546) (Cat# AP6158a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the LRP6 gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with LRP6 Antibody (C-term T1546)(Cat.#AP6158a), which was peroxidase-conjugated to the secondary

diagnostic or therapeutic procedures.

LRP6 Antibody (C-term T1546) - 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 signalsomes. Cell-surface coreceptor of Wnt/beta-catenin signaling, which plays a pivotal role in bone formation. 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 signalsomes and inhibiting AXIN1/GSK3-mediated phosphorylation and destruction of beta-catenin. 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- signalsomes. Chaperoned to the plasma membrane by MESD (By similarity)

Tissue Location

Widely coexpressed with LRP5 during embryogenesis and in adult tissues

antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

LRP6 Antibody (C-term T1546) - Background

LRP6 is essential for the Wnt/beta catenin signaling pathway, probably by acting as a coreceptor together with Frizzled for Wnt. It is a 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.

LRP6 Antibody (C-term T1546) - References

Liu, G., et al., Mol. Cell. Biol. 23(16):5825-5835 (2003). Tamai, K., et al., Nature 407(6803):530-535 (2000). Brown, S.D., et al., Biochem. Biophys. Res. Commun. 248(3):879-888 (1998).

LRP6 Antibody (C-term T1546) - 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](#)

LRP6 Antibody (C-term T1546) - Citations

- [LRP6 protein regulates low density lipoprotein \(LDL\) receptor-mediated LDL uptake.](#)
- [Wild-type LRP6 inhibits, whereas atherosclerosis-linked LRP6R611C increases PDGF-dependent vascular smooth muscle cell proliferation.](#)
- [LRP6 overexpression defines a class of breast cancer subtype and is a target for therapy.](#)