

For Research Use Only

LRP5 Polyclonal antibody

Catalog Number: 24899-1-AP **5 Publications**



Basic Information

Catalog Number: 24899-1-AP	GenBank Accession Number: BC150595	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 250 µg/ml by Nanodrop and 207 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4041	Recommended Dilutions: WB 1:500-1:1000 IHC 1:20-1:200 IF 1:50-1:500
Source: Rabbit	Full Name: Low density lipoprotein receptor-related protein 5	
Isotype: IgG	Calculated MW: 1615 aa, 179 kDa	
Immunogen Catalog Number: AG19034	Observed MW: 180-200 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls: WB : HeLa cells,
Cited Applications: IF, IHC, IP, WB	IHC : human liver cancer tissue, human hepatocirrhosis tissue, mouse lung tissue
Species Specificity: human, mouse	IF : HeLa cells,
Cited Species: human, mouse, rat	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Low-density lipoprotein receptor-related protein 5 (LRP5) is a single-pass type I membrane protein with EGF-like and LDLR domains in the extracellular domain. LRP5 and LRP6 act as coreceptors with Frizzled for Wnt. The complex of Wnt-Fzd-LRP5-LRP6 triggers beta-catenin signaling through inducing aggregation of receptor-ligand complexes into ribosome-sized signalsomes. LRP5 plays a key role in skeletal homeostasis and many bone density related diseases are caused by mutations in LRP5 gene.

Notable Publications

Author	Pubmed ID	Journal	Application
Takafumi Yayama	29102319	J Orthop Sci	IHC
Yifeng Zheng	34912211	Front Pharmacol	WB,IHC,IF,IP
Ying Xu	34425061	Pharm Biol	WB

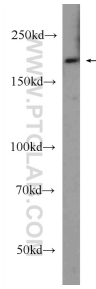
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

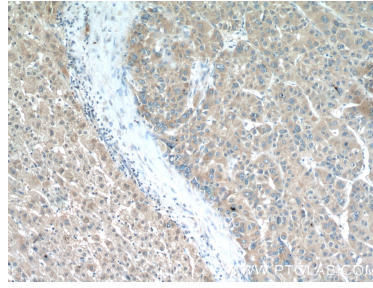
For technical support and original validation data for this product please contact:
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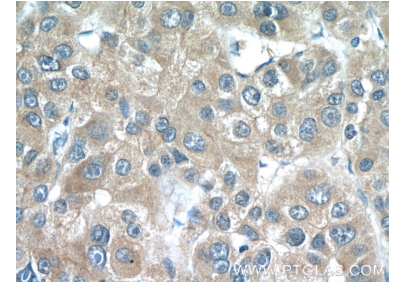
Selected Validation Data



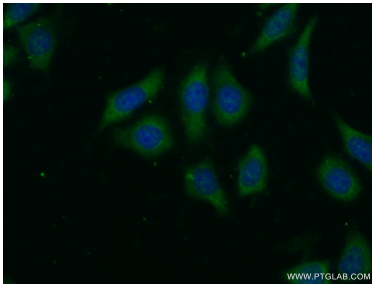
HeLa cells were subjected to SDS PAGE followed by western blot with 24899-1-AP (LRP5 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 24899-1-AP (LRP5 Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 24899-1-AP (LRP5 Antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 24899-1-AP (LRP5 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).