For Research Use Only

LRP5 Polyclonal antibody

Catalog Number:24899-1-AP 8 Publications

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Basic Information

Catalog Number:
24899-1-AP

Size:
500 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG19034

GenBank Accession Number:
BC150595

GeneID (NCBI):
4041

UNIPROT ID:
O75197

Full Name:
low density lipoprotein receptor-related protein 5

Calculated MW:
1615 aa, 179 kDa

Observed MW:
180-200 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IHC 1:50-1:500
IF/ICC 1:50-1:500

Applications

Tested Applications:
IF/ICC, IHC, WB, ELISA

Cited Applications:
WB, IP, IF, IHC

Species Specificity:
human, mouse

Cited Species:
human, rat, mouse

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

Positive Controls:

WB : HeLa cells,

IHC : mouse lung tissue, human hepatocirrhosis tissue, human liver cancer tissue

IF/ICC : HeLa cells,

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

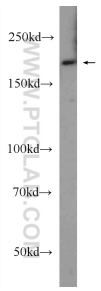
Author	Pubmed ID	Journal	Application
Takafumi Yayama	29102319	J Orthop Sci	IHC
Yifeng Zheng	34912211	Front Pharmacol	WB,IHC,IF,IP
Ying Xu	34425061	Pharm Biol	WB

Storage

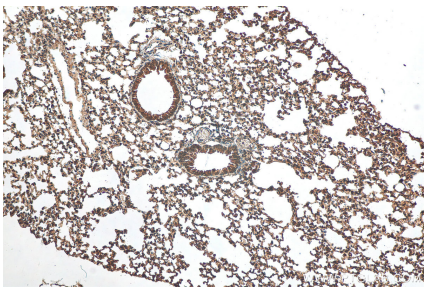
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

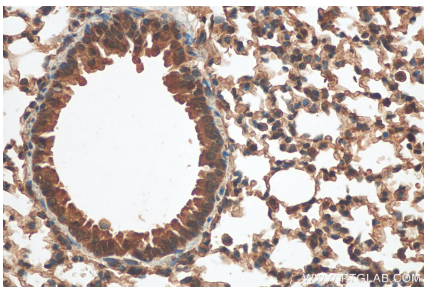
Selected Validation Data



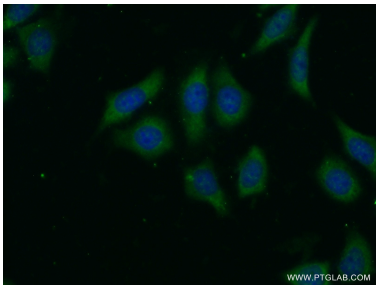
HeLa cells were subjected to SDS PAGE followed by western blot with 24899-1-AP (LRP5 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 24899-1-AP (LRP5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 24899-1-AP (LRP5 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20℃ 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).