

For Research Use Only

LRP1 Polyclonal antibody

Catalog Number: 26106-1-AP

1 Publications



Basic Information

Catalog Number:

26106-1-AP

Size:

150ul, Concentration: 400 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG23098

GenBank Accession Number:

BC045107

GeneID (NCBI):

4035

UNIPROT ID:

Q07954

Full Name:

low density lipoprotein-related protein 1 (alpha-2-macroglobulin receptor)

Calculated MW:

505 kDa

Observed MW:

85-90 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IHC, IF, ColP

Species Specificity:

human, mouse

Cited Species:

human, mouse

Positive Controls:

WB : HEK-293 cells, HeLa cells

IP : mouse liver tissue,

IHC : mouse brain tissue,

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

LRP1 (Prolow-density lipoprotein receptor-related protein 1), also known as A2MR, is a multifunctional cell surface receptor that interacts through its cytoplasmic tail with adaptor and scaffold proteins that participate in cellular signaling. It is synthesized in the endoplasmic reticulum as a transmembrane glycosylated precursor that migrates with an apparent molecular mass of about 600 kd on SDS-polyacrylamide gels. After it reaches the Golgi complex, the protein is cleaved to generate two subunits with apparent molecular masses of approximately 515 and 85 kd respectively (PMID: 2112085). It involved in cellular lipid homeostasis. Involved in the plasma clearance of chylomicron remnants and activated LRPAP1 (alpha 2-macroglobulin), as well as the local metabolism of complexes between plasminogen activators and their endogenous inhibitors. Acts as an LRPAP1 alpha-2-macroglobulin receptor. May modulate cellular events, such as APP metabolism, kinase-dependent intracellular signaling, neuronal calcium signaling as well as neurotransmission (PMID:12888553).

Notable Publications

Author	Pubmed ID	Journal	Application
Hansen Lin	38462037	Cancer Lett	WB,IHC,IF,ColP

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

*** 20ul sizes contain 0.1% BSA

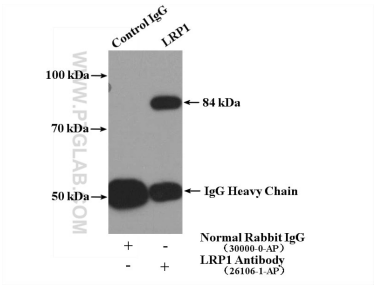
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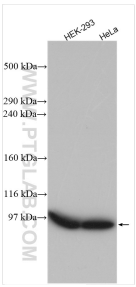
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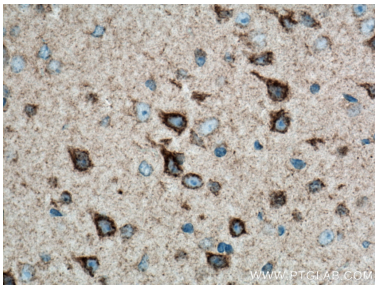
Selected Validation Data



IP result of anti-LRP1 (IP:26106-1-AP, 4ug; Detection:26106-1-AP 1:300) with mouse liver tissue lysate 4000ug.



Various lysates were subjected to SDS PAGE followed by western blot with 26106-1-AP (LRP1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 26106-1-AP (LRP1 antibody) at dilution of 1:200 (under 0x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).