

LRP1 Rabbit mAb

Catalog No.: A28745 **Recombinant**

Basic Information

Observed MW

85 kDa

Calculated MW

505 kDa/32 kDa

Category

Primary antibody

Applications

WB,IP,IF/ICC,IF-F,IF-P,IHC-P,ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC81067

Background

This gene encodes a member of the low-density lipoprotein receptor family of proteins. The encoded preproprotein is proteolytically processed by furin to generate 515 kDa and 85 kDa subunits that form the mature receptor (PMID: 8546712). This receptor is involved in several cellular processes, including intracellular signaling, lipid homeostasis, and clearance of apoptotic cells. In addition, the encoded protein is necessary for the alpha 2-macroglobulin-mediated clearance of secreted amyloid precursor protein and beta-amyloid, the main component of amyloid plaques found in Alzheimer patients. Expression of this gene decreases with age and has been found to be lower than controls in brain tissue from Alzheimer's disease patients.

Recommended Dilutions

WB	1:2000-1:10000
IP	0.5 µg - 4 µg antibody for 200 µg-400 µg extracts of whole cells
IF/ICC	1:200 - 1:400
IF-F	1:200 - 1:400
IF-P	1:200 - 1:400
IHC-P	1:100-1:400
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high- ratio antibody dilutions (≥1:10000) a sequential dilution method is strongly recommended to ensure measurement

Immunogen Information

Gene ID

4035

Swiss Prot

Q07954

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

APR; KPA; DDH3; LRP; A2MR; CD91; APOER; LRP1A; TGFBRS5; IGFBP3R; IGFBP-3R; IGFBP3R1

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

accuracy.

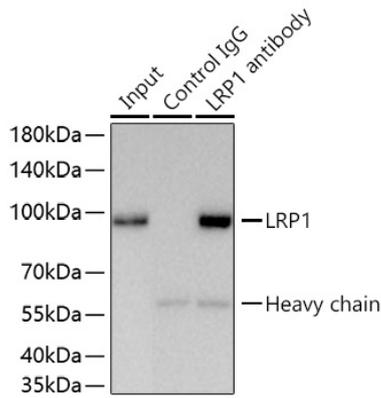
Contact

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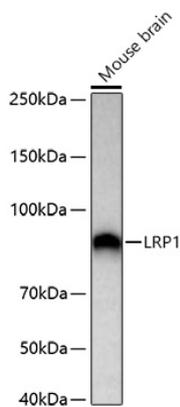
 | cn.market@abclonal.com.cn

 | www.abclonal.com.cn

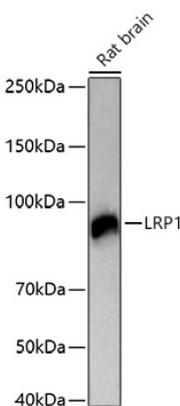
Validation Data



Immunoprecipitation of LRP1 from 300 µg extracts of U-87 MG cells was performed using 2 µg of LRP1 Rabbit mAb (A28745). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using LRP1 Rabbit mAb (A28745) at a dilution of 1:2000.

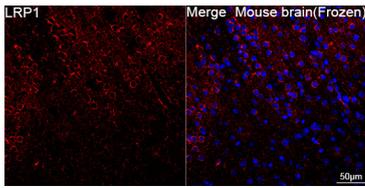


Western blot analysis of lysates from Mouse brain using LRP1 Rabbit mAb (A28745) at 1:5000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60 s.

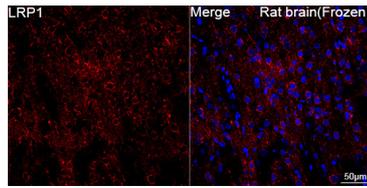


Western blot analysis of lysates from Rat brain using LRP1 Rabbit mAb (A28745) at 1:5000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60 s.

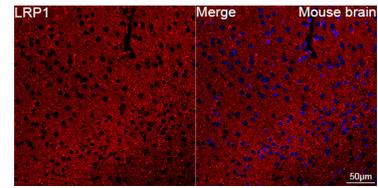
Validation Data



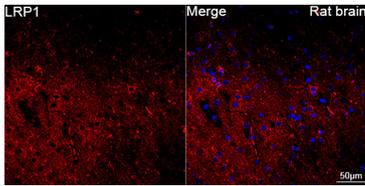
Confocal imaging of frozen sections of Mouse brain tissue using LRP1 Rabbit mAb (A28745, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



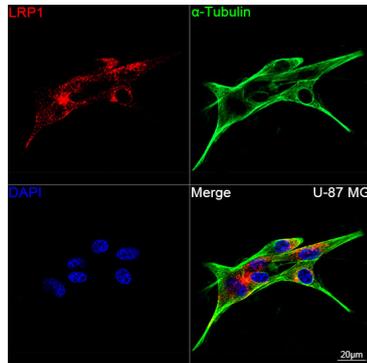
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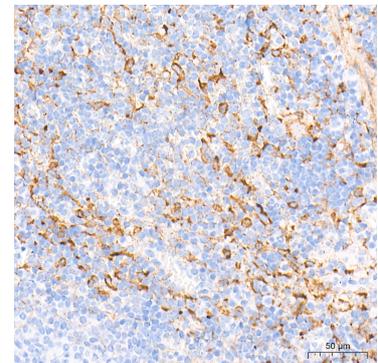
Confocal imaging of paraffin-embedded Mouse brain tissue using LRP1 Rabbit mAb (A28745, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



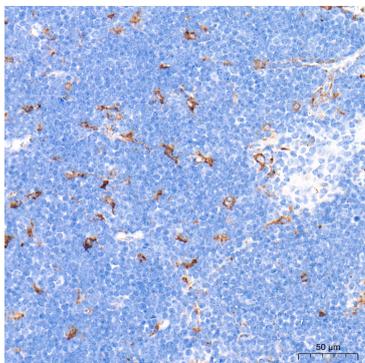
Confocal imaging of paraffin-embedded Rat brain tissue using LRP1 Rabbit mAb (A28745, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



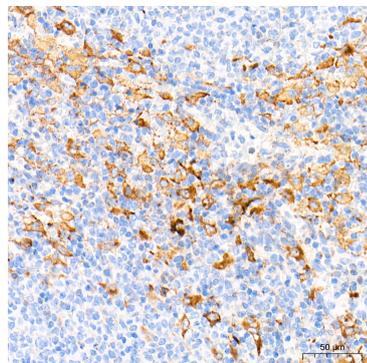
Confocal imaging of U-87 MG cells using LRP1 Rabbit mAb (A28745, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunohistochemistry analysis of paraffin-embedded Mouse spleen tissue using LRP1 Rabbit mAb (A28745) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse thymus tissue using LRP1 Rabbit mAb (A28745) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat spleen tissue using LRP1 Rabbit mAb (A28745) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.