

ABflo® 647 Rabbit anti-Human Megalin/LRP2 mAb

Catalog No.: A24716

Basic Information

Observed MW

Calculated MW

521kDa

Category

Primary antibody

Applications

IF-P,FC (intra)

Cross-Reactivity

Human,Mouse,Rat

CloneNo number

ARC63830

Conjugate

ABflo® 647. Ex:648nm. Em:664nm.

Recommended Dilutions

IF-P 1:50 - 1:200

FC (intra) 5µl per 10⁶ cells in 100 µl volume.

Background

The protein encoded by this gene, low density lipoprotein-related protein 2 (LRP2) or megalin, is a multi-ligand endocytic receptor that is expressed in many different tissues but primarily in absorptive epithelial tissues such as the kidney. This glycoprotein has a large amino-terminal extracellular domain, a single transmembrane domain, and a short carboxy-terminal cytoplasmic tail. The extracellular ligand-binding-domains bind diverse macromolecules including albumin, apolipoproteins B and E, and lipoprotein lipase. The LRP2 protein is critical for the reuptake of numerous ligands, including lipoproteins, sterols, vitamin-binding proteins, and hormones. This protein also has a role in cell-signaling; extracellular ligands include parathyroid hormones and the morphogen sonic hedgehog while cytosolic ligands include MAP kinase scaffold proteins and JNK interacting proteins. Recycling of this membrane receptor is regulated by phosphorylation of its cytoplasmic domain. Mutations in this gene cause Donnai-Barrow syndrome (DBS) and facio-oculoacoustico-renal syndrome (FOAR).

Immunogen Information

Gene ID

4036

Swiss Prot

P98164

Immunogen

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

Synonyms

LRP2; DBS; GP330; LDL receptor related protein 2

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

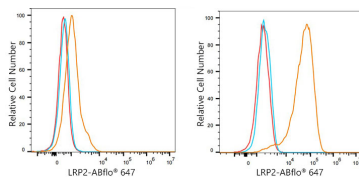
Affinity purification

Storage

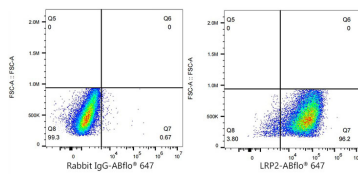
Store at 2-8°C. Avoid freeze.

Buffer: PBS containing 0.2% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

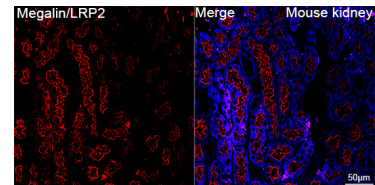
Validation Data



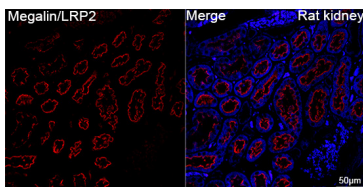
Flow cytometry: 1×10^6 Reh cells (Low Expression, left) and Caco-2 (right) cells were intracellularly-stained with ABflo® 647 Rabbit anti-Human Megalin/LRP2 mAb (A24716, 5 μ l/Test, orange line) or ABflo® 647 Rabbit IgG isotype control (A22070, 5 μ l/Test, blue line). Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry: 1×10^6 Caco-2 cells were intracellularly-stained with ABflo® 647 Rabbit IgG isotype control (A22070, 5 μ l/Test, left) or ABflo® 647 Rabbit anti-Human Megalin/LRP2 mAb (A24716, 5 μ l/Test, right).



Confocal imaging of paraffin-embedded Mouse kidney tissue using ABflo® 647 Rabbit anti-Human Megalin/LRP2 mAb (A24716, dilution 1:100). 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 kidney tissue using ABflo® 647 Rabbit anti-Human Megalin/LRP2 mAb (A24716, dilution 1:100). 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.