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ABflo® 647 Rabbit anti-Human Megalin/LRP2 mAb

Catalog No.: A24716

Basic Information

Observed MW

Calculated MW
521kDa

Category
Primary antibody

Applications
IF/ICC,FC (intra)

Cross-Reactivity
Human,Mouse,Rat

CloneNo number
ARC63830

Conjugate
ABflo® 647. Ex:648nm. Em:664nm.

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 epithilial 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 horomones 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).

Recommended Dilutions

IF/ICC	1:50 - 1:200
FC (intra)	5μl per 10^6 cells in 100 μl volume.

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

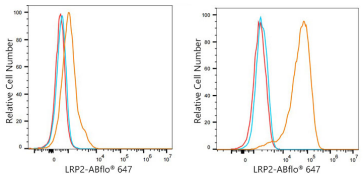
Source
Rabbit

Isotype
IgG

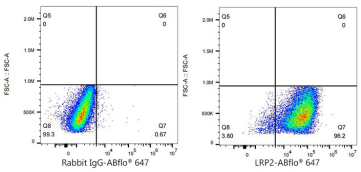
Purification
Affinity purification

Storage
Store at 2-8℃. Avoid freeze.
Buffer: PBS containing 0.2% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

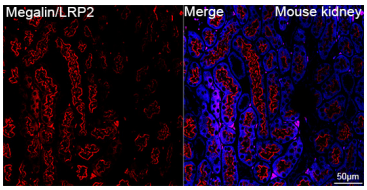
Validation Data



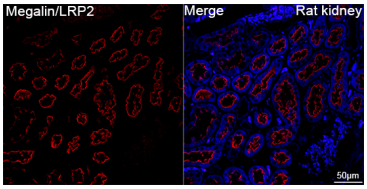
Flow cytometry: 1X10^6 Reh cells (Low Expression,left) and Caco-2 (right) cells were intracellularly-stained with ABflo® 647 Rabbit anti-Human Megalin/LRP2 mAb(A24716,5 µl/Test,orange line) or ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/Test,blue line). Non-fluorescently stained cells was used as blank control (red line).



Flow cytometry: 1X10^6 Caco-2 cells were intracellularly-stained with ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/Test,left) or ABflo® 647 Rabbit anti-Human Megalin/LRP2 mAb (A24716,5 µl/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.