# Anti-LRP1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R010233

## Product Information

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| Application | ELISA, IHC-P/IF (Tissue-P), WB |
| Reactivity | Human, Mouse, Rat |
| Dilution | WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200 |
| Host | Rabbit |
| Clonality | Monoclonal |
| Clone No. | 19M71K09 |
| Isotype | IgG |
| Label | Unconjugated |
| Immunogen | A synthesized peptide derived from human LRP1 |
| Format | Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3. |
| Storage | Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage. |
| Precautions | Anti-LRP1 Rabbit mAb [19M71K09] is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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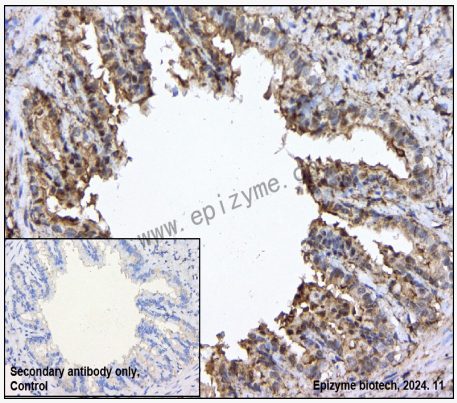
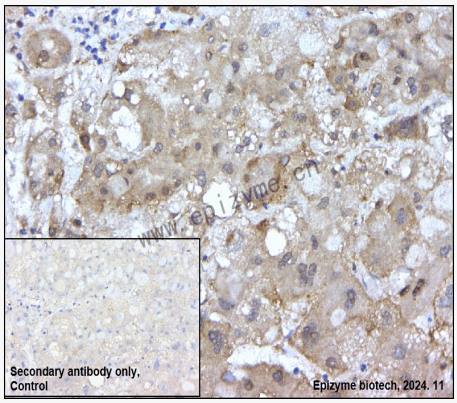
|---|---|
| Synonyms | A2MR, Alpha 2 macroglobulin receptor, alpha 2MR, Alpha-2-macroglobulin receptor, APOER, Apolipoprotein E receptor, APR, CD 91, CD91, CD91 antigen, IGFBP3R, LDL receptor related protein 1, Low density lipoprotein receptor related protein 1, Low density lipoprotein related protein 1, Low-density lipoprotein receptor-related protein 1 intracellular domain, LRP 1, LRP 515, LRP 85, LRP, LRP ICD, LRP-1, LRP-515, LRP-85, Lrp1, LRP1 protein, LRP1_HUMAN, LRP1A, LRP515, LRP85, LRPICD, MGC88725, Prolow density lipoprotein receptor related protein 1, TbetaR V/LRP 1/IGFBP 3 receptor, TbetaRV/LRP1/IGFBP3 receptor, TGFBR 5, TGFBR5, Type V tgf beta receptor. |
| Calculated MW | Calculated MW: 85 kDa; Observed MW: 85 kDa |
| Uniprot ID | Q07954 |
| Gene ID | 4035 |
| 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. [provided by RefSeq, Oct 2015] |
| Cellular Location | Cytoplasm. Nucleus. After cleavage, the intracellular domain (LRPICD) is detected both in the cytoplasm and in the nucleus and Cell membrane. Membrane. coated pit. |

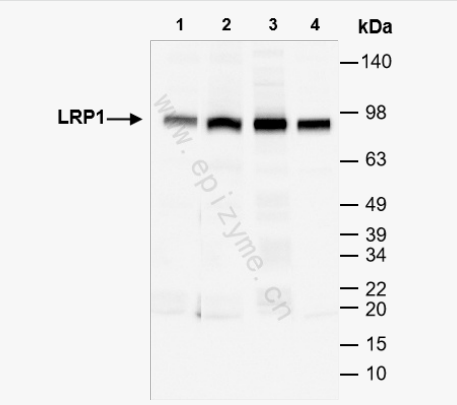
## Validation Images




Immunohistochemistry - Anti-LRP1 Rabbit mAb [19M71K09]
Sample: Paraformaldehyde-fixed, paraffin embedded rat lung tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R010233 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.




Immunohistochemistry - Anti-LRP1 Rabbit mAb [19M71K09]
Sample: Paraformaldehyde-fixed, paraffin embedded human hepatoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R010233 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.




Western Blot - Anti-LRP1 Rabbit mAb [19M71K09]
All lanes: R010233 at 1:2,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lane 3: Rat brain whole tissue lysates
Lane 4: Rat heart whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 85 kDa
Observed band size: 85 kDa
Developed using the ECL technique (Cat. No. SQ201).