

LRP1 (ANT0031R) Rabbit mAb

CatalogNo: ANT8145 **Recombinant** 

Formulation: PBS,50%glycerol,0.05%Proclin 300,0.05%BSA
Quantity : 100 ug/vial

Host Species

- Rabbit
- Human,Mouse,Rat,

Reactivity

- WB,IHC,IF,IP,ELISA

Applications

MW

- 85kD (Calculated)
 - IgG,Kappa
- 85kD (Observed)

Isotype

Recommended Dilution Ratios

IHC 1:200-1:1000

WB 1:1000-1:5000

IF 1:200-1:1000

ELISA 1:5000-1:20000

IP 1:50-1:200,

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Basic Information

Clonality Monoclonal

Clone Number ANT0031R

Target Information

Endogenous

Gene name LRP1

Protein Name Prolow-density lipoprotein receptor-related protein 1

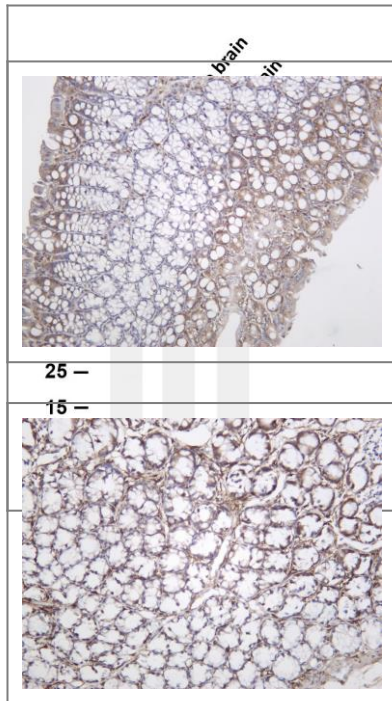
Organism	Gene ID	UniProt ID
Human	4035 ;	Q07954 ;
Mouse	16971 ;	Q91ZX7 ;

Cellular Localization Membranous

Tissue specificity Most abundant in liver, brain and lung.

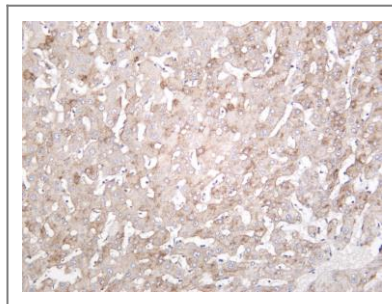
Function Function:Endocytic receptor involved in endocytosis and in phagocytosis of apoptotic cells. Required for early embryonic development. Involved in cellular lipid homeostasis. Involved in the plasma clearance of chylomicron remnants and activated LRPAP1 (alpha 2macroglobulin), as well as the local metabolism of complexes between plasminogen activators and their endogenous inhibitors. May modulate cellular events, such as APP metabolism, kinase-dependent intracellular signaling, neuronal calcium signaling as well as neurotransmission.,ANTM:Cleaved into a 85 kDa membrane-spanning subunit (LRP-85) and a 515 kDa large extracellular domain (LRP-515) that remains non-covalently associated. Gamma-secretase-dependent cleavage of LRP-85 releases the intracellular domain from the membrane.,PTM:Phosphorylated on serine and threonine residues.,PTM:Phosphorylated on tyrosine residues upon stimulation with PDGF. Tyrosine phosphorylation promotes interaction with SHC1.,PTM:The N-terminus is blocked.,similarity:Belongs to the LDLR family.,similarity:Contains 22 EGF-like domains.,similarity:Contains 31 LDL-receptor class A domains.,similarity:Contains 34 LDL-receptor class B repeats.,subcellular location:After cleavage, the intracellular domain (LRPICD) is detected both in the cytoplasm and in the nucleus.,subunit:Heterodimer of an 85-kDa membrane-bound carboxyl subunit and a noncovalently attached 515-kDa amino-terminal subunit. Intracellular domain interacts with MAFB (By similarity). Found in a complex with PID1/PCLI1, LRP1 and CUBNI. Interacts with SNX17, PID1/PCLI1, PDGF and CUBN. The intracellular domain interacts with SHC1, GULP1 and DAB1. Interacts with LRPAP1.,tissue specificity:Most abundant in liver, brain and lung.,

Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-LRP1 (ANT0031R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: A549 Lane 2: Mouse brain Lane 3: Rat brain Predicted band size: 85kDa Observed band size: 85kDa
Mouse colon was stained with Anti-LRP1 (ANT0031R) rabbit antibody

Rat colon was stained with Anti-LRP1 (ANT0031R) rabbit antibody



Human liver was stained with Anti-LRP1 (ANT0031R) rabbit antibody

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