

Anti-LRP1 Picoband Antibody
Catalog # ABO11842**Specification**

Anti-LRP1 Picoband Antibody - Product Information

Application	WB
Primary Accession	Q07954
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Prolow-density lipoprotein receptor-related protein 1(LRP1) detection. Tested with WB in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-LRP1 Picoband Antibody - Additional Information

Gene ID 4035

Other Names

Prolow-density lipoprotein receptor-related protein 1, LRP-1, Alpha-2-macroglobulin receptor, A2MR, Apolipoprotein E receptor, APOER, CD91, Low-density lipoprotein receptor-related protein 1 85 kDa subunit, LRP-85, Low-density lipoprotein receptor-related protein 1 515 kDa subunit, LRP-515, Low-density lipoprotein receptor-related protein 1 intracellular domain, LRPICD, LRP1, A2MR, APR

Calculated MW

504606 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Low-density lipoprotein receptor-related protein 1 85 kDa subunit: Cell membrane; Single-pass type I membrane protein. Membrane, coated pit.

Tissue Specificity

Most abundant in liver, brain and lung.

Protein Name

Prolow-density lipoprotein receptor-related protein 1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

E.coli-derived human LRP1 recombinant protein (Position: A4351-A4544). Human LRP1 shares 86% amino acid (aa) sequence identity with mouse LRP1.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the LDLR family.

Anti-LRP1 Picoband Antibody - Protein Information

Name LRP1 ([HGNC:6692](#))

Synonyms A2MR, APR

Function

Endocytic receptor involved in endocytosis and in phagocytosis of apoptotic cells (PubMed:[11907044](http://www.uniprot.org/citations/11907044), PubMed:[12713657](http://www.uniprot.org/citations/12713657)). Required for early embryonic development (By similarity). Involved in cellular lipid homeostasis. Involved in the plasma clearance of chylomicron remnants and activated LRPAP1 (alpha 2-macroglobulin), as well as the local metabolism of complexes between plasminogen activators and their endogenous inhibitors. Acts as an LRPAP1 alpha-2- macroglobulin receptor (PubMed:[26142438](http://www.uniprot.org/citations/26142438), PubMed:[1702392](http://www.uniprot.org/citations/1702392)). Acts as TAU/MAPT receptor and controls the endocytosis of TAU/MAPT as well as its subsequent spread (PubMed:[32296178](http://www.uniprot.org/citations/32296178)). May modulate cellular events, such as APP metabolism, kinase-dependent intracellular signaling, neuronal calcium signaling as well as neurotransmission (PubMed:[12888553](http://www.uniprot.org/citations/12888553)).

Cellular Location

[Low-density lipoprotein receptor-related protein 1 85 kDa subunit]: Cell membrane; Single-pass type I membrane protein Membrane, coated pit [Low-density lipoprotein receptor-related protein 1 intracellular domain]: Cytoplasm Nucleus. Note=After cleavage, the intracellular domain (LRPICD) is detected both in the cytoplasm and in the nucleus.

Tissue Location

Most abundant in liver, brain and lung.

Anti-LRP1 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-LRP1 Picoband Antibody - Images



Anti-LRP1 Picoband antibody, ABO11842-1.jpg All lanes: Anti LRP1 (ABO11842) at 0.5ug/ml WB: Recombinant Human LRP1 Protein 0.5ng Predicted bind size: 47KD Observed bind size: 47KD

Anti-LRP1 Picoband Antibody - Background

LRP1, also known as Low density lipoprotein receptor-related protein 1 or CD91, is a protein forming a receptor found in the plasma membrane of cells involved in receptor-mediated endocytosis. It is mapped to 12q13.3. In humans, the LRP1 protein is encoded by the LRP1 gene. It is mapped to 12q13.3. LRP1 is involved in several cellular processes, including intracellular signaling, lipid homeostasis, and clearance of apoptotic cells. LRP1 showed strong calcium binding. It mediates the endocytosis and degradation of secreted amyloid precursor protein, suggesting that a single metabolic pathway links 2 molecules implicated in the pathophysiology of Alzheimer disease, LRP1 has a role in macrophage migration and that it is critical for internalization of integrin alpha-M/beta-2.