

**LRP1 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2109a****Specification****LRP1 Antibody - Product Information**

Application	E, WB, IHC, FC
Primary Accession	<a href="#">Q07954</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	50.5kDa KDa

**Description**

The protein encoded by this gene is an endocytic receptor involved in several cellular processes, including intracellular signaling, lipid homeostasis, and clearance of apoptotic cells. In addition, the encoded protein is necessary for the A2M-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 patients.

**Immunogen**

Purified recombinant fragment of human LRP1 (AA: 20-155) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**LRP1 Antibody - Additional Information**

**Gene ID** 4035

**Other Names**

Pro-low-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

**Dilution**

E~~1/10000  
WB~~1/500 - 1/2000  
IHC~~1/200 - 1/1000  
FC~~1/200 - 1/400

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

LRP1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## LRP1 Antibody - Protein Information

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

**Synonyms** A2MR, APR

### Function

Endocytic receptor involved in endocytosis and in phagocytosis of apoptotic cells (PubMed:<a href="http://www.uniprot.org/citations/11907044" target="\_blank">11907044</a>, PubMed:<a href="http://www.uniprot.org/citations/12713657" target="\_blank">12713657</a>). 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:<a href="http://www.uniprot.org/citations/1702392" target="\_blank">1702392</a>, PubMed:<a href="http://www.uniprot.org/citations/26142438" target="\_blank">26142438</a>). Acts as TAU/MAPT receptor and controls the endocytosis of TAU/MAPT as well as its subsequent spread (PubMed:<a href="http://www.uniprot.org/citations/32296178" target="\_blank">32296178</a>). May modulate cellular events, such as APP metabolism, kinase-dependent intracellular signaling, neuronal calcium signaling as well as neurotransmission (PubMed:<a href="http://www.uniprot.org/citations/12888553" target="\_blank">12888553</a>). Acts also as a receptor for IGFBP3 to mediate cell growth inhibition (PubMed:<a href="http://www.uniprot.org/citations/9252371" target="\_blank">9252371</a>).

### 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.

## LRP1 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](#)