

LPR1(S4520) Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22410a

Specification

LPR1(S4520) Antibody - Product Information

Application	WB,E
Primary Accession	Q07954
Other Accession	Q91ZX7 , G3V928
Predicted	Mouse, Rat
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit Ig
Calculated MW	504606

LPR1(S4520) 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 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=6692 target="_blank">HGNC:6692), A2MR, APR

Target/Specificity

This LPR1(S4520) antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between amino acids from the human region of human LPR1(S4520).

Dilution

WB~~1:2000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

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

Precautions

LPR1(S4520) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

LPR1(S4520) Antibody - Protein Information

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

Synonyms A2MR, APR

Function Endocytic receptor involved in endocytosis and in phagocytosis of apoptotic cells (PubMed:[11907044](#), PubMed:[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:[1702392](#), PubMed:[26142438](#)). Acts as TAU/MAPT receptor and controls the endocytosis of TAU/MAPT as well as its subsequent spread (PubMed:[32296178](#)). May modulate cellular events, such as APP metabolism, kinase-dependent intracellular signaling, neuronal calcium signaling as well as neurotransmission (PubMed:[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

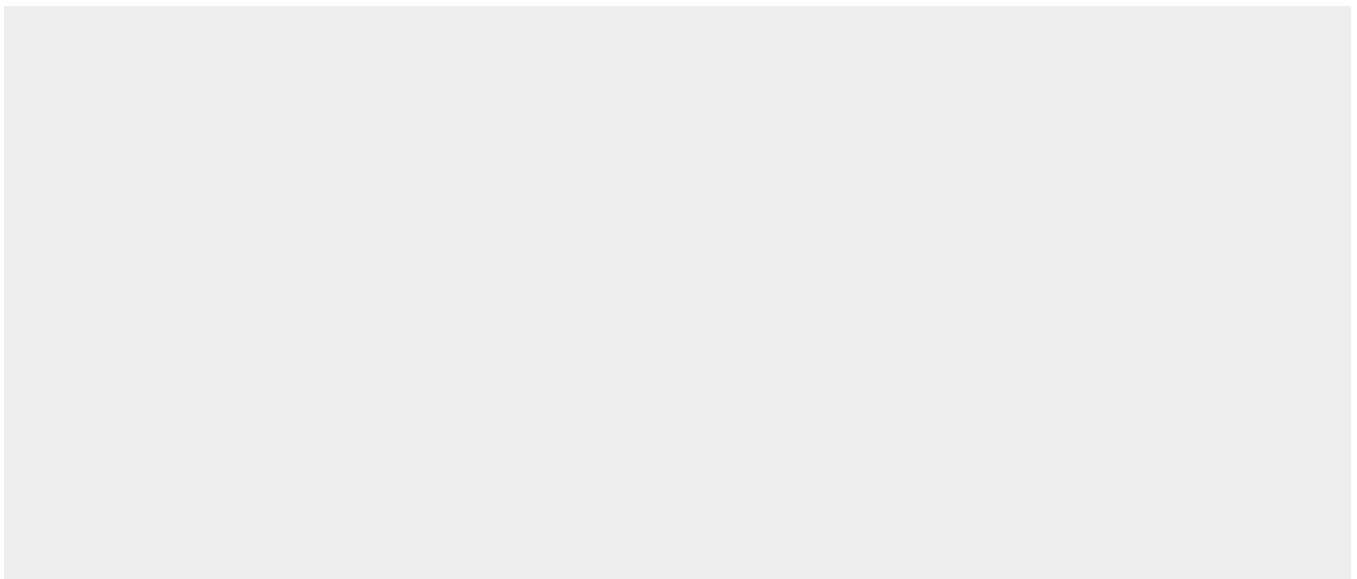
Most abundant in liver, brain and lung.

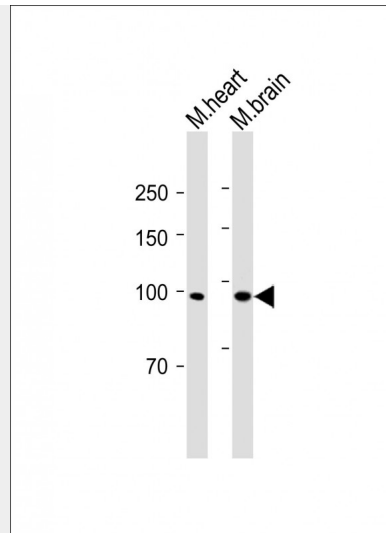
LRP1(S4520) Antibody - Protocols

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](#)

LRP1(S4520) Antibody - Images





All lanes: Anti-LPR1(S4520) Antibody at 1:2000 dilution Lane 1: Mouse heart lysate Lane 2: Mouse brain lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 90 KDa Blocking/Dilution buffer: 5% NFD/MTBST.

LPR1(S4520) Antibody - Background

Endocytic receptor involved in endocytosis and in phagocytosis of apoptotic cells (PubMed:11907044, PubMed: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, PubMed:1702392). Acts as TAU/MAPT receptor and controls the endocytosis of TAU/MAPT as well as its subsequent spread (PubMed:32296178). May modulate cellular events, such as APP metabolism, kinase-dependent intracellular signaling, neuronal calcium signaling as well as neurotransmission (PubMed:12888553).

LPR1(S4520) Antibody - References

- Herz J.,et al.EMBO J. 7:4119-4127(1988).
- Van Leuven F.,et al.Genomics 24:78-89(1994).
- Van Leuven F.,et al.Genomics 52:138-144(1998).
- Scherer S.E.,et al.Nature 440:346-351(2006).
- Kutt H.,et al.Biochim. Biophys. Acta 1009:229-236(1989).