

LPR1(S4520) Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP22410a

Specification

LPR1(S4520) Antibody - Product Information

Application Primary Accession Other Accession Predicted Host Clonality Isotype Calculated MW WB,E <u>007954</u> <u>091ZX7</u>, <u>G3V928</u> Mouse, Rat Rabbit polyclonal Rabbit Ig 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 (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 E~~Use at an assay dependent concentration.

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:<u>11907044</u>, PubMed:<u>12713657</u>). 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:<u>1702392</u>, PubMed:<u>26142438</u>). Acts as TAU/MAPT receptor and controls the endocytosis of TAU/MAPT as well as its subsequent spread (PubMed:<u>32296178</u>). May modulate cellular events, such as APP metabolism, kinase-dependent intracellular signaling, neuronal calcium signaling as well as neurotransmission (PubMed:<u>12888553</u>). Also acts as a receptor for IGFBP3 to mediate cell growth inhibition (PubMed:<u>9252371</u>).

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.

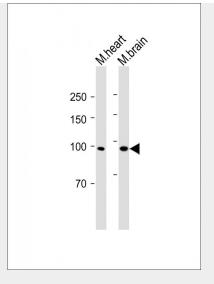
LPR1(S4520) Antibody - Protocols

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

- <u>Western Blot</u>
- <u>Blocking Peptides</u>
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

LPR1(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 μ g 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% NFDM/TBST.

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).