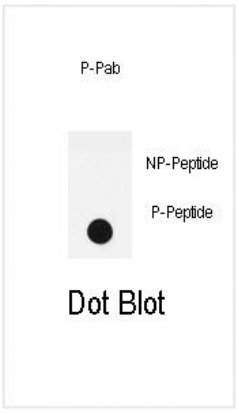
# LPR1 Antibody – Rabbit Polyclonal

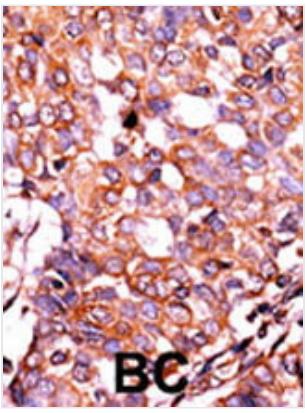
## PRODUCT OVERVIEW

| | |
|---|---|
| **Product Name** | LPR1, Polyclonal Antibody |
| **Full Product Name** | LPR1, Phosphorylated (Ser452) (Prolow-density Lipoprotein Receptor-related Protein 1, LRP-1, Alpha-2-macroglobulin Receptor, A2MR, Apolipoprotein E Receptor, APOER, CD91, APR) (Biotin) |
| **Product Gene Name** | anti-LPR1 antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin. |
| **Purity/Purification** | Purified by Immunoaffinity chromatography. |
| **Specificity** | Recognizes human LPR1 when phosphorylated at Ser452. |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **Molecular Weight** | 504.575 |
| **OMIM** | 107770 |
| **3D Structure** | ModBase 3D Structure for Q07954 |
| **Immunogen** | Synthetic phosphopeptide corresponding to amino acid residues surrounding Ser452 of human LPR1 (KLH). |
| **Conjugate** | Biotin |
| **Antigen Modification** | Phosphorylated |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-LPR1 antibody** | Antibodies; Receptors |
| **Applications Tested/Suitable for anti-LPR1 antibody** | ELISA (EIA), Dot Blot (DB), Immunohistochemistry (IHC) |
| **Application Notes for anti-LPR1 antibody** | ELISA: 1:1,000<br>Dot Blot: 1:500<br>IHC: 1:50-1:100<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-LPR1 antibody** | MBS6485248 is an antibody targeting LPR1. Also known as LPR1, Phosphorylated (Ser452) (Prolow-density Lipoprotein Receptor-related Protein 1, LRP-1, Alpha-2-macroglobulin Receptor, A2MR, Apolipoprotein E Receptor, APOER, CD91, APR) (Biotin). Reactive in Human. Host: Rabbit. |
| **Product References and Citations for anti-LPR1 antibody** | 1. Yu, G., et al., Blood 105(9):3545-3551 (2005). 2. Cam, J.A., et al., J. Biol. Chem. 280(15):15464-15470 (2005). 3. Niemeier, A., et al., J. Bone Miner. Res. 20(2):283-293 (2005). 4. Spijkers, P.P., et al., Blood 105(1):170-177 (2005). 5. Deane, R., et al., Neuron 43(3):333-344 (2004). |

| | |
|---|---|
| **Other Notes** | Small volumes of anti-LPR1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




**Dot Blot (DB) of anti-LPR1 antibody**
Dot blot analysis of anti-Phospho-LPR1-S4520 Antibody on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.




**Immunohistochemistry (IHC) of anti-LPR1 antibody**
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LPR1. It may not necessarily be applicable to this product.

| | |
|---|---|
| **NCBI GI #** | 126012562 |
| **NCBI GeneID** | 4035 |
| **NCBI Accession #** | NP_002323 |
| **UniProt Primary Accession #** | Q07954 |
| **UniProt Related Accession #** | Q07954 |
| **GenBank Nucleotide #** | NP_002323.2 |
| **NCBI Official Full Name** | prolow-density lipoprotein receptor-related protein 1 preproprotein |
| **NCBI Official Synonym Full Names** | LDL receptor related protein 1 |
| **NCBI Official Symbol** | LRP1 |
| **NCBI Official Synonym Symbols** | APR; KPA; LRP; A2MR; CD91; APOER; LRP1A; TGFBR5; IGFBP3R; IGFBP-3R; IGFBP3R1 |
| **UniProt Protein Name** | Prolow-density lipoprotein receptor-related protein 1 |
| **UniProt Synonym Protein Names** | Alpha-2-macroglobulin receptor; A2MR; Apolipoprotein E receptor |
| **Protein Family** | Multicopper oxidase |
| **UniProt Gene Name** | LRP1 |
| **UniProt Synonym Gene Names** | A2MR; APR; LRP-1; A2MR; APOER; LRP-85; LRP-515; LRPICD |
| **UniProt Entry Name** | LRP1_HUMAN |
| **NCBI Protein Information** | prolow-density lipoprotein receptor-related protein 1 |

| | |
|---|---|
| **NCBI Summary for LPR1** | This gene encodes a member of the low-density lipoprotein receptor family of proteins. The encoded preproprotein is proteolytically processed by furin to generate 515 kDa and 85 kDa subunits that form the mature receptor (PMID: 8546712). This receptor is involved in several cellular processes, including intracellular signaling, lipid homeostasis, and clearance of apoptotic cells. In addition, the encoded protein is necessary for the alpha 2-macroglobulin-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's disease patients. [provided by RefSeq, Oct 2015] |
| **UniProt Comments for LPR1** | LRP1: a receptor involved in endocytosis, phagocytosis of apoptotic cells, and neural signaling. Modulates cellular events including APP metabolism, kinase-dependent intracellular signaling, neuronal calcium signaling and neurotransmission. Involved in the plasma clearance of chylomicron remnants and activated alpha 2-macroglobulin, as well as the local metabolism of complexes between plasminogen activators and their endogenous inhibitors. Plays a fundamental role in cellular signaling pathways in the brain. Mediates neural NMDA gating via a complex of LRP1, PSD-95 and NMDAR. A type I membrane protein. After cleavage, the intracellular domain (LRPICD) is detected both in the cytoplasm and in the nucleus. Most abundant in liver, brain and lung.<br><br>Protein type: Motility/polarity/chemotaxis; Cell surface; Membrane protein, integral; Receptor, misc.<br><br>Chromosomal Location of Human Ortholog: 12q13.3<br><br>Cellular Component: focal adhesion; cell soma; clathrin-coated vesicle; integral to plasma membrane; lysosomal membrane; dendrite; cytoplasm; nucleolus; plasma membrane; coated pit; receptor complex; endosome<br><br>Molecular Function: protein binding; lipoprotein transporter activity; protease binding; protein complex binding; apolipoprotein binding; receptor activity; calcium ion binding<br><br>Biological Process: phototransduction, visible light; cholesterol metabolic process; receptor-mediated endocytosis; regulation of phospholipase A2 activity; negative regulation of Wnt receptor signaling pathway; lipoprotein metabolic process; negative regulation of smooth muscle cell migration; positive regulation of protein transport; positive regulation of lipid transport; cell proliferation; lipoprotein transport; regulation of actin cytoskeleton organization and biogenesis; protein kinase C activation; negative regulation of neuron apoptosis; retinoid metabolic process; regulation of cholesterol transport; apoptotic cell clearance; aging |
| **Research Articles on LPR1** | **1.** Results showed that the presence of apoE e3e4/LRP1 CC genotype combination in patients multiplies the chance (7.6 times) for the occurrence of the metabolic syndrome (MetS) in comparison to the presence of other genotype combinations. |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
| **Disclaimer** | While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice.<br><br>It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information. |
| **Product Note** | Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details. |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures.

**MyBioSource** | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/lpr1/6485248