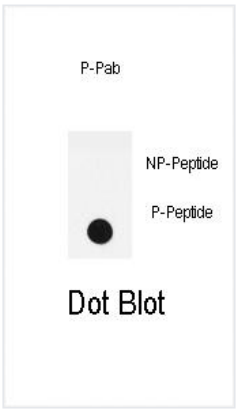
LPR1 Antibody – Rabbit Polyclonal

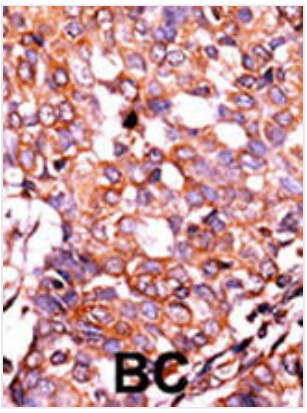
PRODUCT OVERVIEW

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) (APC)
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 Allophycocyanin (APC).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human LPR1 when phosphorylated at Ser452.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Do not freeze APC conjugates. Light sensitive. Aliquots are stable for at least 6 months. 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	APC
Antigen Modification	Phosphorylated
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-LPR1 antibody	Antibodies; Receptors
Applications Tested/Suitable for anti-LPR1 antibody	FLISA, Dot Blot (DB), Immunohistochemistry (IHC)
Application Notes for anti-LPR1 antibody	FLISA: 1:1,000 Dot Blot: 1:500 IHC: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-LPR1 antibody	MBS6485247 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) (APC). 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. Protein type: Motility/polarity/chemotaxis; Cell surface; Membrane protein, integral; Receptor, misc. Chromosomal Location of Human Ortholog: 12q13.3 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 Molecular Function: protein binding; lipoprotein transporter activity; protease binding; protein complex binding; apolipoprotein binding; receptor activity; calcium ion binding 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.
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