

LRP3 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP6155a**Specification****LRP3 Antibody (C-term) Blocking Peptide -
Product Information**Primary Accession [O75074](#)**LRP3 Antibody (C-term) Blocking Peptide -
Additional Information****Gene ID** 4037**Other Names**

Low-density lipoprotein receptor-related protein 3, LRP-3, 105 kDa low-density lipoprotein receptor-related protein, hLRp105, LRP3

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6155a](/product/products/AP6155a) was selected from the C-term region of human LRP3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

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Protein Information****Name** LRP3**LRP3 Antibody (C-term) Blocking Peptide -
Background**

Low density lipoprotein (LDL) receptor-related protein (LRP), a member of the LDL receptor family, binds multiple classes of ligands and has been implicated in a broad range of normal and disease processes involving lipid metabolism, protease clearance, and cell migration (1). Structurally, members of the LDLR family share homology within their extracellular domains, which are highlighted by the presence of clusters of ligand-binding repeats. LRP is a large endocytic receptor that participates in several biological pathways and plays prominent roles in lipoprotein metabolism and in the catabolism of proteinases involved in coagulation and fibrinolysis. LRP also mediates the cellular entry of certain viruses and toxins and facilitates the activation of various lysosomal enzymes (2). All LRPs are expressed in the central nervous system and, for most receptors, animal models have shown that they are indispensable for successful neurodevelopment. The mechanisms by which they regulate the formation of the nervous system are varied and include the transduction of extracellular signals and the modulation of intracellular signal propagation, as well as cargo transport, the function most commonly attributed to this gene family (3).

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References**

Ishii, H., et al., Genomics 51(1):132-135 (1998).

Function

Probable receptor, which may be involved in the internalization of lipophilic molecules and/or signal transduction. Its precise role is however unclear, since it does not bind to very low density lipoprotein (VLDL) or to LRPAP1 in vitro.

Cellular Location

Membrane; Single-pass type I membrane protein. Membrane, coated pit

Tissue Location

Widely expressed. Highly expressed in skeletal muscle and ovary. Expressed at intermediate level in heart, brain, liver, pancreas, prostate and small intestine. Weakly expressed in testis, colon and leukocyte.

LRP3 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)