

**BP5014****Polyclonal Antibody to LDLR - Purified**

<b>Alternate names:</b>	LDL receptor, LDLR, Low-density lipoprotein receptor
<b>Quantity:</b>	0.25 ml
<b>Concentration:</b>	0.1 mg/ml
<b>Background:</b>	<p>The low density lipoprotein receptor (LDLR) gene family consists of cell surface proteins involved in receptor-mediated endocytosis of specific ligands. Low density lipoprotein (LDL) is normally bound at the cell membrane and taken into the cell ending up in lysosomes where the protein is degraded and the cholesterol is made available for repression of microsomal enzyme 3-hydroxy-3-methylglutaryl coenzyme A (HMG CoA) reductase, the rate-limiting step in cholesterol synthesis. At the same time, a reciprocal stimulation of cholesterol ester synthesis takes place. Mutations in this gene cause the autosomal dominant disorder, familial hypercholesterolemia</p>
<b>Uniprot ID:</b>	<a href="#">P01130</a>
<b>NCBI:</b>	<a href="#">NP_000518.1</a>
<b>GeneID:</b>	<a href="#">3949</a>
<b>Host / Isotype:</b>	Rabbit / IgG
<b>Immunogen:</b>	<p>Specific synthetic peptide (sequence not conserved in VLDL receptor and LRP) of the LDL receptor extracellular domain. <b>Epitope:</b> Between residues Nos. 184-195, the linker region between repeats 4 and 5.</p>
<b>Format:</b>	<p><b>State:</b> Liquid purified IgG fraction <b>Purification:</b> Immunoaffinity Chromatography <b>Buffer System:</b> PBS <b>Stabilizers:</b> 0.5% BSA</p>
<b>Applications:</b>	<p><b>Flow Cytometry:</b> 1/10. <b>Immunoblotting:</b> 1/100-1/200. Recognizes the 160 kDa band of LDLR and a 120 kDa band of the LDLR precursor from Fibroblasts, Hepatocytes, and monocytic cells cultured in the presence of lipoprotein-deficient serum. <b>Immunohistochemistry:</b> 1/20.</p> <p>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
<b>Specificity:</b>	<p>The antibody reacts specifically with the LDL Receptor (160 kDa mature or glycosylated receptor; 120 kDa precursor or unglycosylated receptor). It <b>does not</b> inhibit binding of LDL.</p>
<b>Species Reactivity:</b>	<b>Tested:</b> Human.
<b>Storage:</b>	<p>Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.</p>

**Product Citations:****Purchased from Acris:**

1. Akazawa D, Date T, Morikawa K, Murayama A, Miyamoto M, Kaga M, et al. CD81 expression is important for the permissiveness of Huh7 cell clones for heterogeneous hepatitis C virus infection. *J Virol*. 2007 May;81(10):5036-45. Epub 2007 Feb 28. PubMed PMID: 17329343.

**General Readings:**

1. Eden ER, Patel DD, Sun XM, Burden JJ, Themis M, Edwards M, et al. Restoration of LDL receptor function in cells from patients with autosomal recessive hypercholesterolemia by retroviral expression of ARH1. *J Clin Invest*. 2002 Dec;110(11):1695-702. PubMed PMID: 12464675.