

**Goat Anti-ARH / LDL receptor adaptor Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1098a**

**Specification**

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**Goat Anti-ARH / LDL receptor adaptor Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q5SW96</a>
Other Accession	<a href="#">NP_056442</a> , <a href="#">26119</a>
Reactivity	Human
Predicted	Mouse, Rat, Dog, Cow
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	33885

**Goat Anti-ARH / LDL receptor adaptor Antibody - Additional Information**

**Gene ID** 26119

**Other Names**

Low density lipoprotein receptor adapter protein 1, Autosomal recessive hypercholesterolemia protein, LDLRAP1, ARH

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-ARH / LDL receptor adaptor Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-ARH / LDL receptor adaptor Antibody - Protein Information**

**Name** LDLRAP1 ([HGNC:18640](#))

**Function**

Adapter protein (clathrin-associated sorting protein (CLASP)) required for efficient endocytosis of the LDL receptor (LDLR) in polarized cells such as hepatocytes and lymphocytes, but not in non-polarized cells (fibroblasts). May be required for LDL binding and internalization but not for receptor clustering in coated pits. May facilitate the endocytosis of LDLR and LDLR-LDL complexes from coated pits by stabilizing the interaction between the receptor and the structural components

of the pits. May also be involved in the internalization of other LDLR family members. Binds to phosphoinositides, which regulate clathrin bud assembly at the cell surface. Required for trafficking of LRP2 to the endocytic recycling compartment which is necessary for LRP2 proteolysis, releasing a tail fragment which translocates to the nucleus and mediates transcriptional repression (By similarity).

**Cellular Location**

Cytoplasm.

**Tissue Location**

Expressed at high levels in the kidney, liver, and placenta, with lower levels detectable in brain, heart, muscle, colon, spleen, intestine, lung, and leukocytes

**Goat Anti-ARH / LDL receptor adaptor Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Goat Anti-ARH / LDL receptor adaptor Antibody - Images**

AF1098a staining (3 µg/ml) of Human Liver lysate (RIPA buffer, 30 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

**Goat Anti-ARH / LDL receptor adaptor Antibody - Background**

The protein encoded by this gene is a cytosolic protein which contains a phosphotyrosine binding (PTD) domain. The PTD domain has been found to interact with the cytoplasmic tail of the LDL receptor. Mutations in this gene lead to LDL receptor malfunction and cause the disorder autosomal recessive hypercholesterolaemia.

**Goat Anti-ARH / LDL receptor adaptor Antibody - References**

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

New genetic associations detected in a host response study to hepatitis B vaccine. Davila S, et al. Genes Immun, 2010 Apr. PMID 20237496.

A novel Thr56Met mutation of the autosomal recessive hypercholesterolemia gene associated with hypercholesterolemia. Harada K, et al. J Atheroscler Thromb, 2010 Feb 26. PMID 20124734.

Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.

Prevalence and clinical features of heterozygous carriers of autosomal recessive hypercholesterolemia in Sardinia. Filigheddu F, et al. Atherosclerosis, 2009 Nov. PMID 19477448.