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

Specification

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

Application	**WB, E**
Primary Accession	Q5SW96
Other Accession	NP_056442, 26119
Reactivity	**Human**
Predicted	**Mouse, Rat, Dog**
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

Dilution
WB~~1:1000
E~~N/A

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.

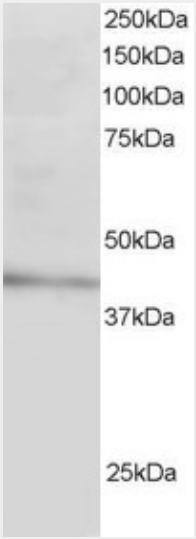
Tissue Location
Expressed at high levels in the kidney, liver, and placenta, with lower levels detectable in brain, heart, muscle, colon, spleen, intestine, lung, and leukocytes

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 Cytomety
- 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 Thiazolinedinedione-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.