SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

**[ Primary Antibody ]**

# Rabbit Anti-ARH antibody

**Catalog Number: SL6337R**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

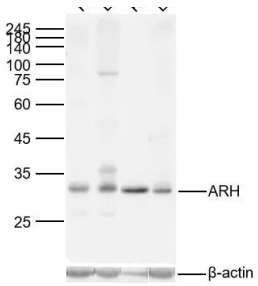
| | |
|---|---|
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | ARH |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human ARH/LDL receptor adaptor protein: 41-140/308 |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | WB=1:500-2000 （Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Mouse, Rat, (predicted: Human, Chicken, Dog, Pig, Cow, Horse, Rabbit, Sheep) |
| **Predicted MW.:** | 34kDa |
| **Subcellular Location:** | cytoplasmic |
| **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.<br>**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 endocytocis 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 |

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

| | |
|---|---|
| | phosphoinositides, which regulate clathrin bud assembly at the cell surface.<br>**Subunit:** Interacts with LDLR. Binds to soluble clathrin trimers. Interacts with AP2B1; the interaction mediates the association with the AP-2 complex. Interacts with VLDLR<br>**Subcellular Location:** Cytoplasm.<br>**Tissue Specificity:** Expressed at high levels in the kidney, liver, and placenta, with lower levels detectable in brain, heart, muscle, colon, spleen, intestine, lung, and leukocytes.<br>**Post-translational modifications:** Phosphorylated upon DNA damage, probably by ATM or ATR.<br>DISEASE: Defects in LDLRAP1 are the cause of autosomal recessive hypercholesterolemia (ARH) [MIM:603813]. ARH is a disorder caused by defective internalization of LDL receptors (LDLR) in the liver. ARH has the clinical features of familial hypercholesterolemia (FH) [MIM:143890] homozygotes, including severely elevated plasma LDL cholesterol, tuberous and tendon xanthomata, and premature atherosclerosis. LDL receptor (LDLR) activity measured in skin fibroblasts is normal, as the LDL binding ability.<br>**Similarity:** Contains 1 PID domain.<br>**Database links:**<br>**Entrez Gene:** 26119 Human<br>**Entrez Gene:** 100017 Mouse<br>**Entrez Gene:** 500564 Rat<br>Omim: 605747 Human<br>**SwissProt:** Q5SW96 Human<br>**SwissProt:** Q8C142 Mouse<br>**Unigene:** 590911 Human<br>**Unigene:** 482148 Mouse |

## [ VALIDATION IMAGES ]




Sample:
Lane 1: Mouse Kidney Lysates
Lane 2: Mouse Liver Lysates

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Lane 3: Rat Kidney Lysates
Lane 4: Rat Liver Lysates
Primary: Anti-ARH (SL6337R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 34kDa
Observed band size: 34kDa

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.