

Product datasheet

Anti-ARH antibody [EPR13116] - C-terminal ab179828

Recombinant RabMAb

[1 Reference](#) [1 Image](#)

Overview

| | |
|----------------------------|--|
| Product name | Anti-ARH antibody [EPR13116] - C-terminal |
| Description | Rabbit monoclonal [EPR13116] to ARH - C-terminal |
| Host species | Rabbit |
| Tested applications | Suitable for: WB Unsuitable for: Flow Cyt, ICC/IF, IHC-P or IP |
| Species reactivity | Reacts with: Human |
| Immunogen | Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) within Human ARH aa 250 to the C-terminus (Cysteine residue). The exact sequence is proprietary. Database link: Q5SW96 |
| Positive control | Human fetal liver, HeLa, K562 and 293T cell lysates. |
| General notes | <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</p> |

Properties

| | |
|-----------------------------|--|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long |

term. Avoid freeze / thaw cycle.

Storage buffer

pH: 7.20
Preservative: 0.01% Sodium azide
Constituents: 59% PBS, 40% Glycerol, 0.5% BSA

Purity

Protein A purified

Clonality

Monoclonal

Clone number

EPR13116

Isotype

IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab179828** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|-------------|-----------|-------|
|-------------|-----------|-------|

| | | |
|----|--|--|
| WB | | 1/10000 - 1/50000. Predicted molecular weight: 34 kDa. |
|----|--|--|

Application notes

Is unsuitable for Flow Cyt,ICC/IF,IHC-P or IP.

Target

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.

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.

Involvement in 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.

Sequence similarities

Contains 1 PID domain.

Domain

The [DE]-X(1,2)-F-X-X-[FL]-X-X-X-R motif mediates interaction the AP-2 complex subunit AP2B1.

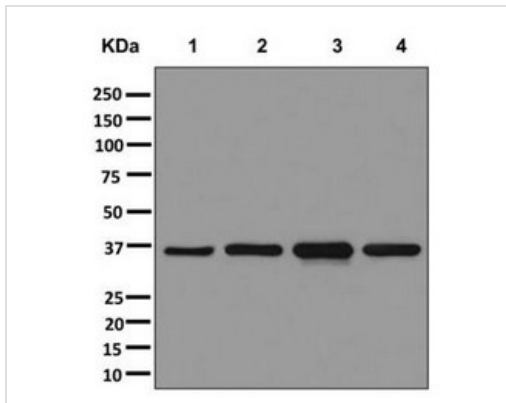
Post-translational modifications

Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization

Cytoplasm.

Images



Western blot - Anti-ARH antibody [EPR13116] - C-terminal (ab179828)

All lanes : Anti-ARH antibody [EPR13116] - C-terminal (ab179828) at 1/10000 dilution

Lane 1 : Human fetal liver lysate

Lane 2 : HeLa cell lysate

Lane 3 : K562 cell lysate

Lane 4 : 293T cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 34 kDa

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