

Anti-ALAS2/ASB antibody [EPR15112(B)] - C-terminal ab184964

重组 RabMAb

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概述

产品名称	Anti-ALAS2/ASB抗体[EPR15112(B)] - C-terminal
描述	兔单克隆抗体[EPR15112(B)] to ALAS2/ASB - C-terminal
宿主	Rabbit
经测试应用	适用于: WB, IP
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: NIH/3T3, PC-12, Rat brain, Jurkat, 293 and Human fetal liver. IP: K-562 cells.
常规说明	<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>

性能

形式	Liquid
存放说明	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.
存储溶液	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR15112(B)
同种型	IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab184964于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/1000 - 1/2000. Detects a band of approximately 65 kDa (predicted molecular weight: 65 kDa).
IP		1/30 - 1/50.

靶标

组织特异性

Erythroid specific.

通路

Porphyrin metabolism; protoporphyrin-IX biosynthesis; 5-aminolevulinate from glycine: step 1/1.

疾病相关

Defects in ALAS2 are a cause of anemia sideroblastic X-linked (XLSA) [MIM:300751]. Sideroblastic anemia is characterized by anemia of varying severity, hypochromic peripheral erythrocytes, systemic iron overload secondary to chronic ineffective erythropoiesis, and the presence of bone marrow ringed sideroblasts. Sideroblasts are characterized by iron-loaded mitochondria clustered around the nucleus. XLSA shows a variable hematologic response to pharmacologic doses of pyridoxine.

Defects in ALAS2 are the cause of erythropoietic protoporphyria X-linked dominant (XLDPT) [MIM:300752]. Porphyrins are inherited defects in the biosynthesis of heme, resulting in the accumulation and increased excretion of porphyrins or porphyrin precursors. They are classified as erythropoietic or hepatic, depending on whether the enzyme deficiency occurs in red blood cells or in the liver. XLDPT is a form of porphyria characterized biochemically by a high proportion of zinc-protoporphyrin in erythrocytes, in which a mismatch between protoporphyrin production and the heme requirement of differentiating erythroid cells leads to overproduction of protoporphyrin in amounts sufficient to cause photosensitivity and liver disease. Note=Gain of function mutations in ALS2 are responsible for XLDPT, but they can also be a possible aggravating factor in congenital erythropoietic porphyria and other erythropoietic disorders caused by mutations in other genes (PubMed:21309041).

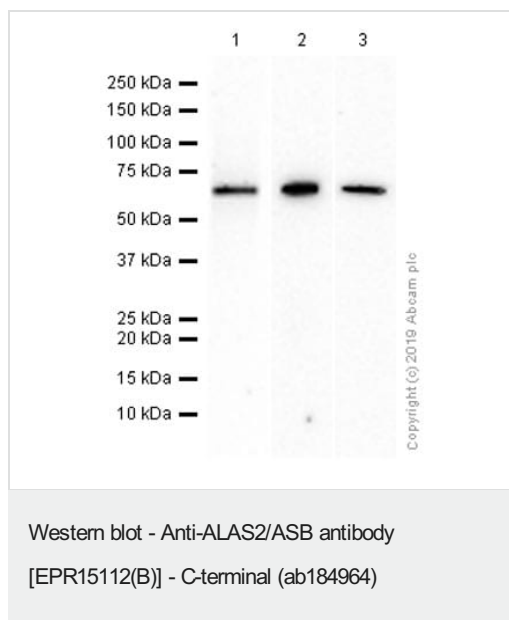
序列相似性

Belongs to the class-II pyridoxal-phosphate-dependent aminotransferase family.

细胞定位

Mitochondrion matrix.

图片



All lanes : Anti-ALAS2/ASB antibody [EPR15112(B)] - C-terminal (ab184964) at 1/1000 dilution (Purified)

Lane 1 : NIH/3T3 (Mouse embryonic fibroblast) whole cell lysates

Lane 2 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysates

Lane 3 : Rat brain lysates

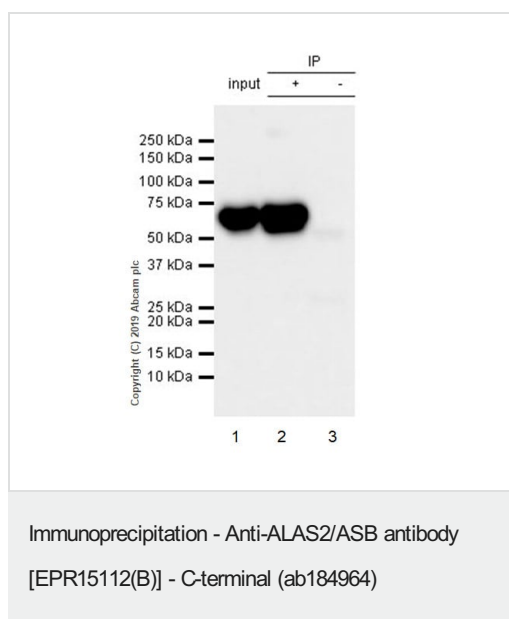
Lysates/proteins at 15 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 65 kDa

Observed band size: 65 kDa



ab184964 (Purified) at 1:30 dilution (2 µg) immunoprecipitating ALAS2/ASB in K-562 whole cell lysate.

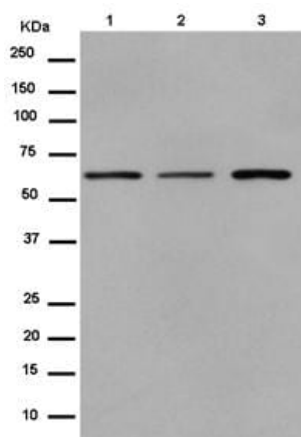
Lane 1 (input): K-562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysate 10 µg

Lane 2 (+): ab184964 & K-562 whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG ([ab172730](#)) instead of ab184964 in K-562 whole cell lysate

For western blotting, VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used at 1:1000 dilution.

Blocking and diluting buffer: 5% NFDM/TBST.



Western blot - Anti-ALAS2/ASB antibody
[EPR15112(B)] - C-terminal (ab184964)

All lanes : Anti-ALAS2/ASB antibody [EPR15112(B)] - C-terminal
(ab184964) at 1/1000 dilution

Lane 1 : K562 lysate

Lane 2 : Jurkat lysate

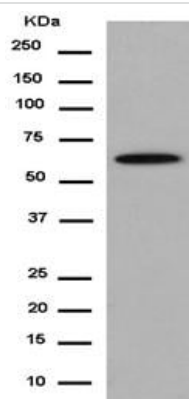
Lane 3 : 293 lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at
1/1000 dilution

Predicted band size: 65 kDa



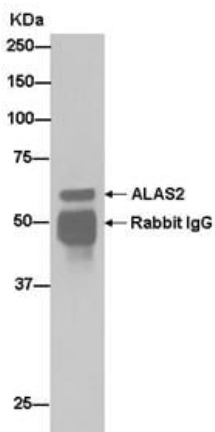
Western blot - Anti-ALAS2/ASB antibody
[EPR15112(B)] - C-terminal (ab184964)

Anti-ALAS2/ASB antibody [EPR15112(B)] - C-terminal (ab184964)
at 1/1000 dilution + Human fetal liver at 10 µg

Secondary

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at
1/1000 dilution

Predicted band size: 65 kDa



Western blot analysis of immunoprecipitation pellet from 293 cell lysate immunoprecipitated using ab184964 at 1/50 dilution.

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated secondary used at a 1/1000 dilution.

Immunoprecipitation - Anti-ALAS2/ASB antibody
[EPR15112(B)] - C-terminal (ab184964)

Why choose a
recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-ALAS2/ASB antibody [EPR15112(B)] - C-terminal (ab184964)

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