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Datasheet for ABIN4996304  
**anti-ALAS1 antibody (Alexa Fluor 680)**

### Overview

Quantity:	100 µL
Target:	ALAS1
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ALAS1 antibody is conjugated to Alexa Fluor 680
Application:	Western Blotting (WB), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human ALAS1/ALAS-H
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

### Target Details

Target:	ALAS1
Alternative Name:	ALAS1 ( <a href="#">ALAS1 Products</a> )
Background:	Synonyms: mitochondrial, nonspecic, 5 aminolevulinate synthase, 5 aminolevulinate synthase nonspecic mitochondrial, 5 aminolevulinic acid synthase, 5-aminolevulinate synthase, 5-aminolevulinic acid synthase 1, Alas 1, ALAS 3, ALAS, ALAS H, ALAS N, ALAS-H, alaS1, ALAS3, ALASH, Aminolevulinate delta synthase 1, Aminolevulinic acid synthase 1, Delta ALA

## Target Details

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synthetase, Delta aminolevulinate synthase, Delta-ALA synthase 1, Delta-aminolevulinate synthase 1, HEM1\_HUMAN, MIG 4, MIG4, Migration inducing protein 4.

Background: 5-aminolevulinate synthase 1 (ALAS-H) and 2 (ALAS-E) are two isoforms of ALAS, an enzyme catalyzing the first step of the heme biosynthetic pathway in mammals. The erythroid-specific isoenzyme, ALAS-E, regulates the first step of hematopoietic cell differentiation and iron metabolism in the liver. ALAS-H is a housekeeping protein which mediates synthesis of early heme in the mitochondria of most cells. Succinyl CoA associates with ALAS-E in protein conformation change and translocation of ALAS-E into the mitochondria and does not interact with ALAS-H. The ALAS-E 5'-flanking region contains binding sites for nuclear activators such as GATA-1, NF-E2 and EKLF. Since the ALAS gene maps to the X chromosome, mutation of the gene leads to the pyridoxine-refractory X-linked sideroblastic anemia.

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Gene ID: 211

Pathways: [Regulation of Lipid Metabolism by PPARalpha](#)

## Application Details

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Application Notes: IF(IHC-P) 1:50-200

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date: 12 months