

## Datasheet for ABIN1421048 **anti-ALAS2 antibody (Cy7)**

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### Overview

|              |                                                                                 |
|--------------|---------------------------------------------------------------------------------|
| Quantity:    | 100 µL                                                                          |
| Target:      | ALAS2                                                                           |
| Reactivity:  | Human, Mouse, Rat                                                               |
| Host:        | Rabbit                                                                          |
| Clonality:   | Polyclonal                                                                      |
| Conjugate:   | This ALAS2 antibody is conjugated to Cy7                                        |
| Application: | Western Blotting (WB), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

### Product Details

|                   |                                                                  |
|-------------------|------------------------------------------------------------------|
| Immunogen:        | KLH conjugated synthetic peptide derived from human ALAS2/ALAS-E |
| Isotype:          | IgG                                                              |
| Cross-Reactivity: | Human, Mouse, Rat                                                |
| Purification:     | Purified by Protein A.                                           |

### Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | ALAS2                                                                                                                                                                                                                                                                                                                                                                          |
| Alternative Name: | ALAS-E ( <a href="#">ALAS2 Products</a> )                                                                                                                                                                                                                                                                                                                                      |
| Background:       | Synonyms: 5-aminolevulinate synthase, erythroid-specic, mitochondrial, 5-aminolevulinic acid synthase, ALAS E, ALASE, ANH1, Delta aminolevulinate synthase, XLSA, 5 aminolevulinic acid synthase 2, 5-aminolevulinate synthase 2, 5-aminolevulinate synthase, 5-aminolevulinate synthase 2, Alas 2, ALAS, ALAS E, ALAS, erythroid, ALASE, Aminolevulinate, delta-, synthase 2, |

## Target Details

Aminolevulinic acid synthase 2, erythroid, ANH1, ASB, Delta ALA synthase 2, Delta ALA synthetase, Delta aminolevulinate synthase 2, Delta aminolevulinate synthase, Erythroid specific ALAS, FLJ93603, XLDPP, XLSA.

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.

Gene ID: 212

Pathways: [Transition Metal Ion Homeostasis](#)

## Application Details

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

Restrictions: For Research Use only

## Handling

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