Datasheet for ABIN7599056

anti-ALAS2 antibody (AA 1-190)

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Overview

Quantity:	100 µg
Target:	ALAS2
Binding Specificity:	AA 1-190
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ALAS2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-ALAS2/ASB Antibody Picoband®
Immunogen:	E.coli-derived human ALAS2/ASB recombinant protein (Position: M1-D190).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-ALAS2/ASB Antibody Picoband® (ABIN7599056). Tested in ELISA, Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	ALAS2
Alternative Name:	ALAS2 (ALAS2 Products)
Background:	Synonyms: Endothelin-converting enzyme 1,ECE-1,3.4.24.71,ECE1, Tissue Specificity: All isoforms are expressed in umbilical vein endothelial cells, polynuclear neutrophils, fibroblasts, atrium cardiomyocytes and ventricles. Isoforms A, B and C are also expressed in placenta, lung, heart, adrenal gland and phaeochromocytoma, isoforms A and C in liver, testis and small intestine, isoform B, C and D in endothelial cells and umbilical vein smooth muscle cells, isoforms C and D in saphenous vein cells, and isoform C in kidney. . Background: Delta-aminolevulinate synthase 2 also known as ALAS2 is a protein that in humans is encoded by the ALAS2 gene. The product of this gene specifies an erythroid-specific mitochondrially located enzyme. The encoded protein catalyzes the first step in the heme biosynthetic pathway. Defects in this gene cause X-linked pyridoxine-responsive sideroblastic anemia. Alternatively spliced transcript variants encoding different isoforms have been identified.
Molecular Weight:	65 kDa
Gene ID:	212
UniProt:	P22557
Pathways:	Transition Metal Ion Homeostasis

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Aoki, Y., Urata, G., Takaku, F. Delta-aminolevulinic acid synthetase activity in erythroblasts of patients with primary sideroblastic anemia. Acta Haemat. Jpn. 36: 74-77, 1973. 2. Astner, I., Schulze, J. O., van den Heuvel, J., Jahn, D., Schubert, W.-D., Heinz, D. W. Crystal structure of 5-aminolevulinate synthase, the first enzyme of heme biosynthesis, and its link to XLSA in humans. EMBO J. 24: 3166-3177, 2005. 3. Astrin, K. H., Bishop, D. F. Assignment of human erythroid delta-aminolevulinate synthase (ALAS2) to the X chromosome. (Abstract) Cytogenet. Cell Genet. 51: 953-954, 1989.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.