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Datasheet for ABIN1385780 **anti-ALAS2 antibody**

Overview

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

Target Details

synthase 2, Alas 2, ALAS, ALAS E, ALAS, erythroid, ALASE, Aminolevulinate, delta-, synthase 2, 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:	WB 1:300-5000 IHC-P 1:200-400 IF(IHC-P) 1:50-200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % 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:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Handling

Expiry Date: 12 months