10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ALAS2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant ALAS2.
Catalog # AT1107a

Product Information

Application	WB, E
Primary Accession	P22557
Other Accession	NM_000032
Reactivity	Human, Mouse
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	6C1
Calculated MW	64633

Additional Information

Gene ID	212
Other Names	5-aminolevulinate synthase, erythroid-specific, mitochondrial, ALAS-E, 5-aminolevulinic acid synthase 2, Delta-ALA synthase 2, Delta-aminolevulinate synthase 2, ALAS2, ALASE, ASB
Target/Specificity	ALAS2 (NP_000023, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	ALAS2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

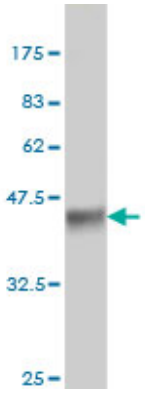
The product of this gene specifies an erythroid-specific mitochondrially located enzyme. The encoded protein catalyzes the first step in the heme biosynthetic pathway. Defects in this gene cause X-linked pyridoxine-responsive sideroblastic anemia. Alternatively spliced transcript variants encoding different isoforms have been identified.

References

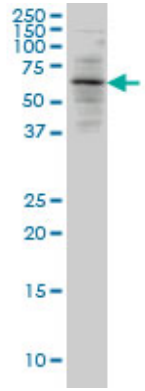
1.Emodin can induce K562 cells to erythroid differentiation and improve the expression of globin genes.Ma

YN, Chen MT, Wu ZK, Zhao HL, Yu HC, Yu J, Zhang JWMol Cell Biochem. 2013 Jun 7.2.Hypoxic Induction of Human Erythroid-Specific Delta-Aminolevulinate Synthase Mediated by Hypoxia-Inducible Factor 1.Zhang FL, Shen GM, Liu XL, Wang F, Zhao HL, Yu J, Zhang JW.Biochemistry. 2011 Jan 20. [Epub ahead of print]

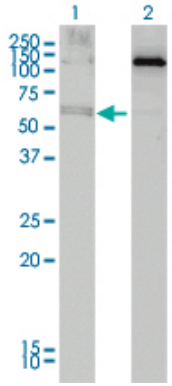
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .

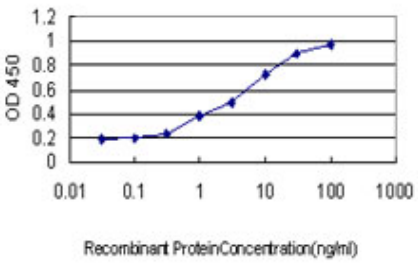


ALAS2 monoclonal antibody (M01), clone 6C1. Western Blot analysis of ALAS2 expression in Raw 264.7.



Western Blot analysis of ALAS2 expression in transfected 293T cell line by ALAS2 monoclonal antibody (M01), clone 6C1.

Lane 1: ALAS2 transfected lysate(64 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged ALAS2 is approximately 0.1ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.