

ALAS2 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant ALAS2.****Catalog # AT1107a****Specification**

ALAS2 Antibody (monoclonal) (M01) - Product Information

Application	WB, E
Primary Accession	P22557
Other Accession	NM_000032
Reactivity	Human, Mouse
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	64633

ALAS2 Antibody (monoclonal) (M01) - 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.

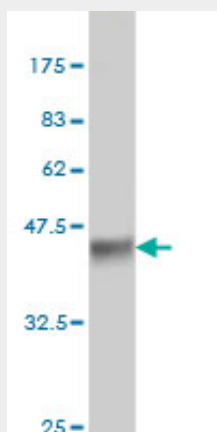
ALAS2 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

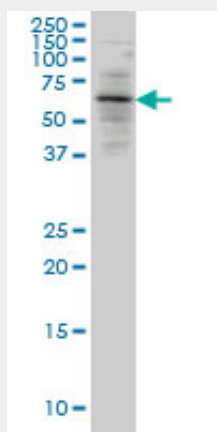
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

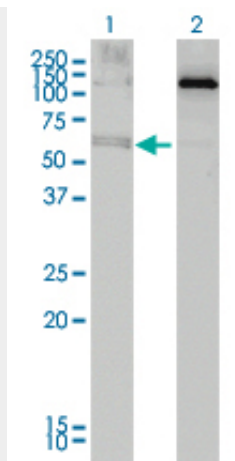
ALAS2 Antibody (monoclonal) (M01) - Images



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



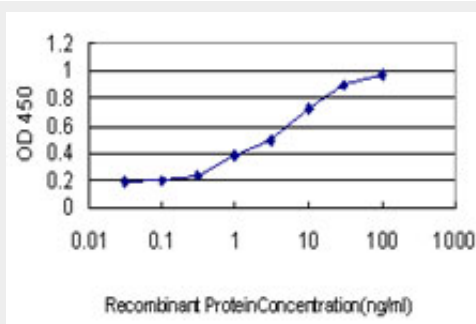
ALAS2 monoclonal antibody (M01), clone 6C1. Western Blot analysis of ALAS2 expression in Raw 264.7.



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.

ALAS2 Antibody (monoclonal) (M01) - 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.

ALAS2 Antibody (monoclonal) (M01) - 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 JW. *Mol 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]