

# Product Datasheet

## ALAS2 Antibody (6C1) - Azide and BSA Free H00000212-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**H00000212-M01**

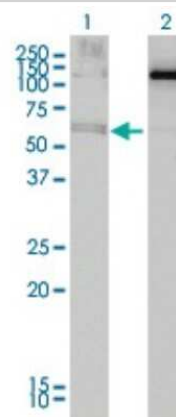
ALAS2 Antibody (6C1) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	6C1
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	212
Gene Symbol	ALAS2
Species	Human, Mouse
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
Specificity/Sensitivity	ALAS2 - aminolevulinate, delta-, synthase 2 (sideroblastic/hypochromic anemia)
Immunogen	ALAS2 (NP_000023, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MVTAAAMLLQCCPVLARGPTSLLGKVVKTHQFLFGIGRCPILATQGPNC SQIHLK ATKAGGDSPSWAKGHCPFMLSELQDGKSKIVQKAAPEVQEDVKAFK
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA
Recommended Dilutions	Western Blot 1:500, ELISA
Application Notes	Antibody reactivity against cell lysate, transfected lysate and recombinant protein for WB. It has been used for ELISA.

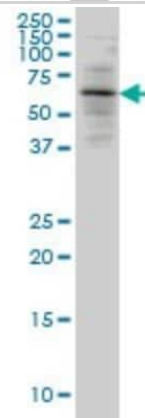


## Images

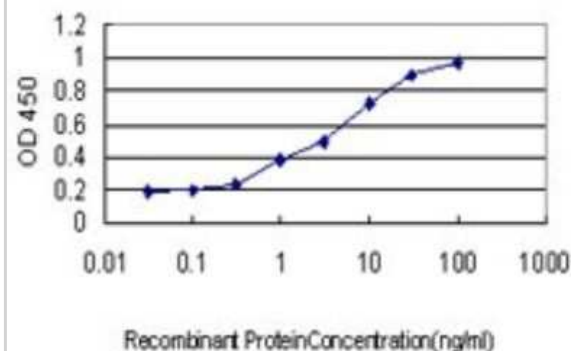
Western Blot: ALAS2 Antibody (6C1) [H00000212-M01] - Analysis of ALAS2 expression in transfected 293T cell line by ALAS2 monoclonal antibody (M01), clone 6C1. Lane 1: ALAS2 transfected lysate(64 KDa). Lane 2: Non-transfected lysate.



Western Blot: ALAS2 Antibody (6C1) [H00000212-M01] - ALAS2 monoclonal antibody (M01), clone 6C1. Analysis of ALAS2 expression in Raw 264.7.



ELISA: ALAS2 Antibody (6C1) [H00000212-M01] - Detection limit for recombinant GST tagged ALAS2 is approximately 0.1 ng/ml as a capture antibody.



## Publications

Paul B, Tesfay L, Winkler C et al. Sideroflexin 4 affects Fe-S cluster biogenesis, iron metabolism, mitochondrial respiration and heme biosynthetic enzymes. *Sci Rep.* 2019-12-23 [PMID: 31873120]

Sommer N, Theine FF, Pak O et al. Mitochondrial Respiration in Peripheral Blood Mononuclear Cells Negatively Correlates with Disease Severity in Pulmonary Arterial Hypertension *Journal of clinical medicine* 2022-07-16 [PMID: 35887896]

Zhang FL, Shen GM, Liu XL et al. Hypoxic Induction of Human Erythroid-Specific Delta-Aminolevulinate Synthase Mediated by Hypoxia-Inducible Factor 1. *Biochemistry.* 2011-01-20 [PMID: 21207956]

Ma YN, Chen MT, Wu ZK et al. Emodin can induce K562 cells to erythroid differentiation and improve the expression of globin genes. *Mol Cell Biochem.* 2013-10-01 [PMID: 23744534] (WB, Human)



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### **Products Related to H00000212-M01**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
H00000212-Q01-10ug	Recombinant Human ALAS2 GST (N-Term) Protein

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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