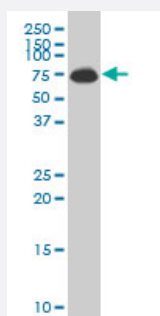


ALAS1 monoclonal antibody (M01), clone 3G10

Catalog # H00000211-M01

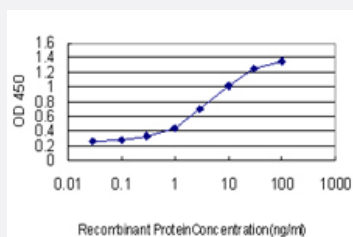
Size 100 ug

Applications



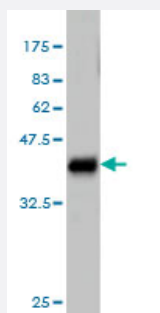
Western Blot (Cell lysate)

ALAS1 monoclonal antibody (M01), clone 3G10 Western Blot analysis of ALAS1 expression in JAR (Cat # L003V1).



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ALAS1 is approximately 0.1ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.52 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant ALAS1.

Immunogen	ALAS1 (NP_000679, 1 a.a. ~ 98 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MESVVRRCPFILSRVPQAFLLQKAGKSLLFYAQNCPKMMEVGAKPAPRALSTAAVHYQQIKETPPA SEKDKTAKAKVQQTPDGSQQSPDGTQLPSGHPLP
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (86); Rat (83)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.52 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

ALAS1 monoclonal antibody (M01), clone 3G10 Western Blot analysis of ALAS1 expression in JAR (Cat # L003V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ALAS1 is approximately 0.1ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — ALAS1

Entrez GeneID [211](#)

GeneBank Accession#	NM_000688
Protein Accession#	NP_000679
Gene Name	ALAS1
Gene Alias	ALAS, ALAS3, ALASH, MIG4
Gene Description	aminolevulinate, delta-, synthase 1
Omim ID	125290
Gene Ontology	Hyperlink
Gene Summary	Delta-aminolevulinate synthase (ALAS; EC 2.3.1.37) catalyzes the condensation of glycine with succinyl-CoA to form delta-aminolevulinic acid. This nuclear-encoded mitochondrial enzyme is the first and rate-limiting enzyme in the mammalian heme biosynthetic pathway. There are 2 tissue-specific isozymes: a housekeeping enzyme encoded by the ALAS1 gene and an erythroid tissue-specific enzyme encoded by ALAS2 (MIM 301300).[supplied by OMIM]
Other Designations	aminolevulinate, delta, synthase 1 migration-inducing protein 4

Publication Reference

- [PGC-1{alpha} is not mandatory for exercise- and training-induced adaptive gene responses in mouse skeletal muscle.](#)

Leick L, Wojtaszewski JF, Johansen ST, Kiilerich K, Comes G, Hellsten Y, Hidalgo J, Pilegaard H.

American Journal of Physiology. Endocrinology and Metabolism 2007 Dec; 294(2):E463.

Application: WB, Mouse, Mouse muscle

Pathway

- [Glycine](#)
- [Metabolic pathways](#)
- [Porphyrin and chlorophyll metabolism](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)

- [Edema](#)