Datasheet: VMA00203

Description:	MOUSE ANTI ALAS1
Specificity:	ALAS1
Format:	Purified
Product Type:	PrecisionAb™ Monoclonal
Clone:	OTI1C5
Isotype:	IgG1
Quantity:	100 µl

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/1000

PrecisionAb antibodies have been extensively validated for the western blot application. The antibody has been validated at the suggested dilution. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependant on sample type.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse
N.B. Antibody reactivity and working conditions may vary between species.

Product Form

Purified IgG - liquid

Preparation

Mouse monoclonal antibody purified by affinity chromatography from ascites.

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN_3)
1% Bovine Serum Albumin
50% Glycerol

Immunogen

Recombinant protein corresponding to amino acids 57-308 of human ALAS1 (NP_000679) produced in *E. coli*

External Database Links

UniProt:
P13196 Related reagents

Entrez Gene:

211 ALAS1 Related reagents

Synonyms	ALAS3, ALASH
Specificity	**Mouse anti Human ALAS1 antibody** recognizes ALAS1, also known as 5-aminolevulinate synthase, nonspecific, mitochondrial, 5-aminolevulinic acid synthase 1, ALAS-H, delta-ALA synthase 1, delta-aminolevulinate synthase 1 and migration-inducing protein 4. The ALAS1 gene encodes the mitochondrial enzyme which is catalyzes the rate-limiting step in heme (iron-protoporphyrin) biosynthesis. This enzyme is a housekeeping enzyme; a separate gene encodes a form of the enzyme that is specific for erythroid tissue. The level of the mature encoded protein is regulated by heme: high levels of heme down-regulate the mature enzyme in mitochondria while low heme levels up-regulate. A pseudogene of ALAS1 is located on chromosome 12. Multiple alternatively spliced variants, encoding the same protein, have been identified (provided by RefSeq, Dec 2011). Mouse anti Human ALAS1 antibody detects a band of 70 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.
Western Blotting	Anti ALAS1 detects a band of approximately 70 kDa in Jurkat cell lysates.
Instructions For Use	Please refer to the PrecisionAb western blotting protocol. For additional information on secondary antibody dilution and exposure time see product web page.
Storage	Store undiluted at -20^{o}C, avoiding repeated freeze thaw cycles.
Shelf Life	As supplied, 12 months from date of despatch.
Acknowledgements	PrecisionAb™ is a trademark of Bio-Rad Laboratories.
Health And Safety Information	Material Safety Datasheet documentation #10048 available at: Antibody (10048): https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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