

Datasheet: VMA00203

BATCH NUMBER 240615

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

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. 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 dependent on sample type.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Mouse monoclonal antibody purified by affinity chromatography from tissue culture supernatant

Buffer Solution

Phosphate buffered saline.

Preservative

0.09% Sodium Azide (NaN₃)

Stabilisers	1% Bovine Serum Albumin 50% Glycerol
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Recombinant protein corresponding to amino acids 57-308 of human ALAS1 (NP_000679) produced in <i>E. coli</i>
External Database Links	<p>UniProt: P13196 Related reagents</p> <p>Entrez Gene: 211 ALAS1 Related reagents</p>
Synonyms	ALAS3, ALASH
Specificity	<p>Mouse anti Human ALAS1 antibody, clone OT11C5 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.</p> <p>The ALAS1 gene encodes the mitochondrial enzyme which 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).</p> <p>Mouse anti Human ALAS1 antibody, clone OT11C5 detects a band of 70 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.</p>
Western Blotting	Anti ALAS1 detects a band of approximately 70 kDa in Jurkat cell lysates.
Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
Guarantee	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: https://www.bio-rad-antibodies.com/SDS/VMA00203 Antibody (10048)
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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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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