

Datasheet: VMA00378KT

Description:	HMBS ANTIBODY WITH CONTROL LYSATE
Specificity:	HMBS
Format:	Purified
Product Type:	PrecisionAb™ Monoclonal
Clone:	UMAB144
Isotype:	IgG1
Quantity:	2 Westerns

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
Product Form	Purified IgG - liquid
Preparation	20µl Mouse monoclonal antibody purified by affinity chromatography from ascites
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide (NaN ₃)
Stabilisers	1% Bovine Serum Albumin 50% Glycerol
Immunogen	Full length recombinant human HMBS (NP_000181) produced in HEK293T cells
External Database Links	<p>UniProt: P08397 Related reagents</p> <p>Entrez Gene: 3145 HMBS Related reagents</p>
Synonyms	PBGD, UPS

Specificity **Mouse anti Human HMBS antibody** recognizes HMBS, also known as porphobilinogen deaminase and uroporphyrinogen I synthetase.

The HMBS gene encodes a member of the hydroxymethylbilane synthase superfamily. HMBS protein is the third enzyme of the heme biosynthetic pathway and catalyzes the head to tail condensation of four porphobilinogen molecules into the linear hydroxymethylbilane. Mutations in HMBS are associated with the autosomal dominant disease acute intermittent porphyria. Alternatively spliced transcript variants encoding different isoforms have been described (provided by RefSeq, Jul 2008).

Mouse anti Human HMBS antibody detects a band of 39 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

Western Blotting Anti HMBS detects a band of approximately 39 kDa in Raji 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.

Lysate Composition 400µg Raji lysate lyophilized in RIPA buffer

Lysate Reconstitution - If using DDT reconstitute the lyophilized lysate with 190µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.
- If using BME reconstitute the lyophilized lysate with 180µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.
Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.

Storage Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.

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 #10561 available at:
Antibody (10048): <https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf>
Lysate Material (10561): <https://www.bio-rad-antibodies.com/uploads/MSDS/10561.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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