

Datasheet: VMA00171

Description:	MOUSE ANTI CYTOCHROME P450 2B6
Specificity:	CYTOCHROME P450 2B6
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	OTI3D5
Isotype:	IgG2a
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, Rat

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 ascites.

Buffer Solution

Phosphate buffered saline.

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)
1% Bovine Serum Albumin
50% Glycerol

Approx. Protein Concentrations	IgG concentration 0.5 mg/ml.
Immunogen	Full length recombinant human CYP2B6 (NP_000758) produced in HEK293T cells
External Database Links	<p>UniProt: P20813 Related reagents</p> <p>Entrez Gene: 1555 CYP2B6 Related reagents</p>
Specificity	<p>Mouse anti Human cytochrome P450 2B6 antibody, clone OTI3D5 recognizes cytochrome P450 2B6, also known as 1,4-cineole 2-exo-monooxygenase, cytochrome P450 IIB1, cytochrome P450, subfamily IIB (phenobarbital-inducible) and polypeptide 6.</p> <p>Encoded by the CYP2B6 gene, cytochrome P450 2B6 is a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and its expression is induced by phenobarbital. The enzyme is known to metabolize some xenobiotics, such as the anti-cancer drugs cyclophosphamide and ifosfamide. Transcript variants for CYP2B6 have been described; however, it has not been resolved whether these transcripts are in fact produced by CYP2B6 or by a closely related pseudogene, CYP2B7. Both the gene and the pseudogene are located in the middle of a CYP2A pseudogene found in a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamilies on chromosome 19q (provided by RefSeq, Jul 2008).</p> <p>Mouse anti Human cytochrome P450 2B6 antibody detects a band of 56 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.</p>
Western Blotting	Anti cytochrome P450 2B6 detects a band of approximately 56 kDa in Jurkat cell lysates.
References	1. Yue, F. <i>et al.</i> (2022) Constant light exposure alters gut microbiota and short-/medium-chain fatty acids and aggravates PCOS-like traits in HFD-fed rats. Obesity (Silver Spring). Feb 06 [Epub ahead of print].
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/VMA00171 Antibody (10048)
Regulatory	For research purposes only.

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

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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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