Datasheet: VMA00117

Description: MOUSE ANTI CYTOCHROME P450 3A4
Specificity: CYTOCHROME P450 3A4
Format: Purified
Product Type: PrecisionAb™ Monoclonal
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.

<table>
<thead>
<tr>
<th>Suggested Dilution</th>
<th>Western Blotting</th>
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<tbody>
<tr>
<td>Yes</td>
<td>1/1000</td>
</tr>
<tr>
<td>No</td>
<td></td>
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<tr>
<td>Not Determined</td>
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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

Mouse monoclonal antibody prepared by affinity chromatography on Protein G from ascites

Buffer Solution

Phosphate buffered saline

Preservative

0.09% Sodium Azide (NaN₃)

Stabilisers

Immunogen

Purified recombinant fragment of human cytochrome P450 3A4 expressed in E. coli

External Database Links

UniProt: P08684 Related reagents

Entrez Gene:

1576 CYP3A4 Related reagents

Synonyms

CYP3A3

Specificity

Mouse anti Human cytochrome P450 3A4 antibody recognizes cytochrome P450 3A4, also known as 1,8-cineole 2-exo-monooxygenase, P450-III, steroid inducible, albendazole monooxygenase, albendazole sulfoxidase, cytochrome P450 3A3, cytochrome P450 HLP,
cytochrome P450 NF-25, cytochrome P450, subfamily IIIA (niphedipine oxidase), polypeptide 3, cytochrome P450, subfamily IIIA (niphedipine oxidase), polypeptide 4, cytochrome P450-PCN1, glucocorticoid-inducible P450, nifedipine oxidase, quinine 3-monoxygenase and taurochenodeoxycholate 6-alpha-hydroxylase.

Encoded by the CYP3A4 gene, cytochrome P450 3A4 is a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monoxygenases that 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 glucocorticoids and some pharmacological agents. This enzyme is involved in the metabolism of approximately half the drugs in use today, including acetaminophen, codeine, cyclosporin A, diazepam and erythromycin. The enzyme also metabolizes some steroids and carcinogens. CYP3A4 is part of a cluster of cytochrome P450 genes on chromosome 7q21.1. Previously another CYP3A gene, CYP3A3, was thought to exist; however, it is now thought that this sequence represents a transcript variant of CYP3A4. Alternatively spliced transcript variants encoding different isoforms have been identified (provided by RefSeq, Feb 2011).

Mouse anti Human cytochrome P450 3A4 antibody detects a band of 50 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

**Western Blotting**

Anti cytochrome P450 3A4 detects a band of approximately 50 kDa in human liver tissue 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°C, avoiding repeated freeze thaw cycles.

**Guarantee**

As supplied, 12 months from date of despatch.

**Acknowledgements**

PrecisionAb™ is a trademark of Bio-Rad Laboratories.

**Health And Safety Information**


**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)