Product datasheet

Anti-Cytochrome P450 1A2 antibody [3B8C1] ab56073

Overview

Product name: Anti-Cytochrome P450 1A2 antibody [3B8C1]
Description: Mouse monoclonal [3B8C1] to Cytochrome P450 1A2
Host species: Mouse
Tested applications: Suitable for: WB, IHC-P
Species reactivity: Reacts with: Human
Immunogen: Rat Cytochrome P450 1A2 proteins
Positive control: IHC-P: Normal human liver sections.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer: Preservative: 0.08% Sodium azide
Constituent: PBS
Purity: Protein G purified
Clonality: Monoclonal
Clone number: 3B8C1
Myeloma: Ag8.653
Isotype: IgG1

Applications

Our Abpromise guarantee covers the use of ab56073 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 1 - 2 µg/ml. Detects a band of approximately 58 kDa (predicted molecular weight: 58 kDa).</td>
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<tr>
<td>IHC-P</td>
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<td>Use a concentration of 1 - 5 µg/ml.</td>
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Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It oxidizes a variety of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics. Most active in catalyzing 2-hydroxylation. Caffeine is metabolized primarily by cytochrome CYP1A2 in the liver through an initial N3-demethylation. Also acts in the metabolism of aflatoxin B1 and acetaminophen. Participates in the bioactivation of carcinogenic aromatic and heterocyclic amines. Catalyzes the N-hydroxylation of heterocyclic amines and the O-deethylation of phenacetin.

**Tissue specificity**
Liver.

**Sequence similarities**
Belongs to the cytochrome P450 family.

**Cellular localization**
Endoplasmic reticulum membrane. Microsome membrane.

**Images**

**Western blot - Anti-Cytochrome P450 1A2 antibody [3B8C1] (ab56073)**

All lanes: Anti-Cytochrome P450 1A2 antibody [3B8C1] (ab56073)

Lane 2: recombinant CYP1B1 at 0.5pmol/lane

Lane 3: recombinant CYP1A1 at 0.5pmol/lane

Lane 4: recombinant CYP1A2 at 0.5pmol/lane

Predicted band size: 58 kDa

Observed band size: 58 kDa

**Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytochrome P450 1A2 antibody [3B8C1] (ab56073)**

Immunohistochemical staining of formalin-fixed, paraffin-embedded normal human liver tissue section using ab56073.
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