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

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.

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<th>Application</th>
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<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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</table>
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.

**Function**

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**Tissue specificity**

Liver.

**Sequence similarities**

Belongs to the cytochrome P450 family.

**Cellular localization**

Endoplasmic reticulum membrane. Microsome membrane.

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**Images**

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

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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