# Anti-Cytochrome P450 1A2 [3B8C1]

**Catalogue number:** 152163
**Sub-type:** Primary antibody
**Images:**

## Contributor

**Inventor:** Ayham Alnabulsi
**Institute:** Vertebrate Antibodies Limited
**Images:**

## Tool details

***FOR RESEARCH USE ONLY**

**Name:** Anti-Cytochrome P450 1A2 [3B8C1]

**Alternate name:**

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**Class:** Monoclonal
**Conjugate:** Unconjugated
**Description:** 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. Catalizes the N-hydroxylation of heterocyclic amines and the O-deethylation of phenacetin.
**Purpose:**
**Parental cell:**
**Organism:**
**Tissue:**
**Model:**
**Gender:**
**Isotype:** IgG1 kappa
**Reactivity:** Human
**Selectivity:**
**Host:** Mouse
**Immunogen:** Rat cytochrome P450 proteins
**Immunogen UNIPROT ID:**
**Sequence:**
**Growth properties:**
**Production details:**

**Formulation:**
**Recommended controls:** IHC: formalin-fixed, paraffin-embedded normal liver sections; western blot: recombinant P450
**Bacterial resistance:**
**Selectable markers:**
**Additional notes:**

## Target details

**Target:** Cytochrome P450 1A2 (CYP1A2)

**Target alternate names:**

**Target background:** 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. Catalizes the N-hydroxylation of heterocyclic amines and the O-deethylation of phenacetin.

**Molecular weight:**

**Ic50:**

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## Applications

**Application:** IHC ; WB
**Application notes:**

## Handling

**Format:** Liquid
**Concentration:** 0.9-1.1 mg/ml
**Passage number:**
**Growth medium:**
**Temperature:**
**Atmosphere:**
**Volume:**
**Storage medium:**
**Storage buffer:** PBS with 0.02% azide
**Storage conditions:** -15° C to -25° C
**Shipping conditions:** Shipping at 4° C

## Related tools

**Related tools:**

## References

**References:**

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