

# CYP1A1 Rabbit mAb

Catalog No.: A29454 **Recombinant**

## Basic Information

**Observed MW**

59 kDa

**Calculated MW**

59 kDa

**Category**

Primary antibody

**Applications**

WB, IF/ICC, ELISA

**Cross-Reactivity**

Mouse

**CloneNo number**

ARC84648

## Background

Enables oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, reduced flavin or flavoprotein as one donor, and incorporation of one atom of oxygen. Acts upstream of or within several processes, including amine metabolic process; hydrogen peroxide biosynthetic process; and toxin metabolic process. Predicted to be located in mitochondrial inner membrane. Predicted to be active in mitochondrion. Is expressed in several structures, including 1-cell stage conceptus; genitourinary system; liver; maxillary process; and spleen. Human ortholog(s) of this gene implicated in several diseases, including arthritis (multiple); diabetes mellitus (multiple); gastrointestinal system cancer (multiple); hematologic cancer (multiple); and lung disease (multiple). Orthologous to human CYP1A1 (cytochrome P450 family 1 subfamily A member 1).

## Recommended Dilutions

**WB** 1:3000 - 1:10000**IF/ICC** 1:200 - 1:1000

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions ( $\geq 1:10000$ ) a sequential dilution method is strongly recommended to ensure measurement accuracy.

## Immunogen Information

**Gene ID**

13076

**Swiss Prot**

P00184

**Immunogen**

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

**Synonyms**

AHH; AHRR; CP11; CYP1A1; P450-1

## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

Affinity purification

**Storage**

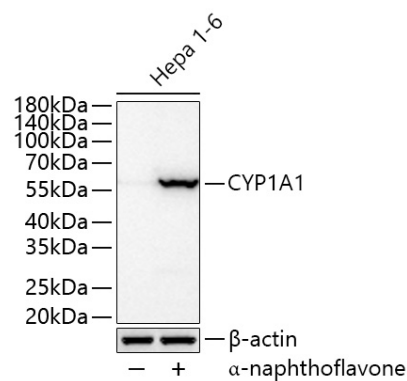
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

## Contact

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## Validation Data



Western blot analysis of lysates from Hepa 1-6 cells using CYP1A1 Rabbit mAb (A29454) at 1:5000 dilution incubated overnight at 4°C. Hepa 1-6 cells were treated with  $\alpha$ -naphthoflavone (10  $\mu$ M) at 37°C for 8 hours after serum starvation overnight.

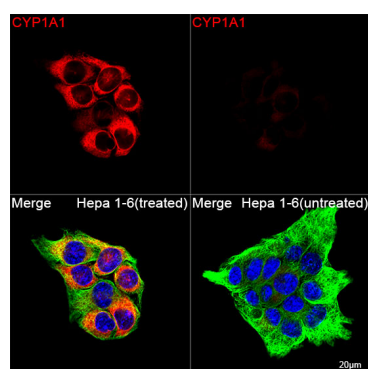
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 30  $\mu$ g per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 5 s.



Confocal imaging of Hepa 1-6 cells (treated with  $\beta$ -naphthoflavone) and Hepa 1-6 cells (untreated) using CYP1A1 Rabbit mAb (A29454, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with  $\alpha$ -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) (AS037, dilution 1:800) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.