

**DATASHEET**

**Cytochrome P450 3A4 Mouse Monoclonal Antibody(C3649)**

CAT. NO. AMA03261

**KEY FEATURES**

|               |   |               |              |
|---------------|---|---------------|--------------|
| Target        | Cytochrome P450 3A4   | Source / Host | Mouse        |
| Reactivity    | Human   | Clonality     | Monoclonal   |
| Applications  | WB  | Conjugation   | Unconjugated |
| Form / Buffer | Mouse IgM. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide. | Storage       | at-20°C      |

**BACKGROUND**

A cytochrome P450 monooxygenase involved in the metabolism of sterols, steroid hormones, retinoids and fatty acids . Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (NADPH--hemoprotein reductase). Catalyzes the hydroxylation of carbon-hydrogen bonds . Exhibits high catalytic activity for the formation of hydroxyestrogens from estrone (E1) and 17beta-estradiol (E2), namely 2-hydroxy E1 and E2, as well as D-ring hydroxylated E1 and E2 at the C-16 position . Plays a role in the metabolism of androgens, particularly in oxidative deactivation of testosterone .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

|    |                |
|----|----------------|
| WB | 1:500 - 1:1000 |
|----|----------------|

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

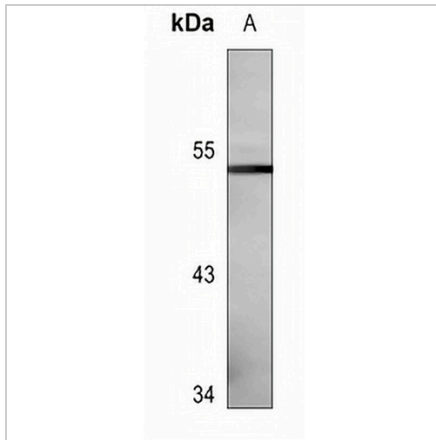
|                   |  |
|-------------------|--|
| Description       | Mouse monoclonal antibody to Cytochrome P450 3A4   |
| Specificity       | Recognizes endogenous levels of Cytochrome P450 3A4 protein.   |
| Antibody Type     | Primary antibody   |
| Immunogen         | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Cytochrome P450 3A4. The exact sequence is proprietary.   |
| Purification      | This antibody is purified through a protein G column.  |
| Molecular Weight  | Predicted: 57 kD; Observed: 54 kD  |
| Form/Buffer       | Mouse IgM. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.  |
| Alternative Names | CYP3A3; Cytochrome P450 3A4; 1,8-cineole 2-exo-monooxygenase; Albendazole monooxygenase; Albendazole sulfoxidase; CYP3A3; CYP3A4; Cytochrome P450 3A3; Cytochrome P450 HLP; Cytochrome P450 NF-25; Cytochrome P450-PCN1; Nifedipine oxidase; Quinine 3-monooxygenase; Taurochenodeoxycholate 6-alpha-hydroxylase |
| Gene Symbol       | CYP3A4   |
| Entrez Gene       | 1576(Human)  |
| SwissProt         | P08684(Human)  |

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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**DATA**

Western blot analysis of Cytochrome P450 3A4 expression in T47D (A) whole cell lysates.  
(Predicted band size: 57 kD; Observed band size: 54 kD)

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.