

**DATASHEET**

**Cytochrome P450 5A1 Rabbit Polyclonal Antibody**

CAT. NO. APA14184

**KEY FEATURES**

|               |                                                                                                           |               |                     |
|---------------|-----------------------------------------------------------------------------------------------------------|---------------|---------------------|
| Target        | Cytochrome P450 5A1                                                                                       | Source / Host | Rabbit              |
| Reactivity    | Human, Mouse                                                                                              | Clonality     | Polyclonal          |
| Applications  | WB                                                                                                        | Conjugation   | Unconjugated        |
| Form / Buffer | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |               | Storage<br>at -20°C |

**BACKGROUND**

Catalyzes the conversion of prostaglandin H2 (PGH2) to thromboxane A2 (TXA2), a potent inducer of blood vessel constriction and platelet aggregation to thromboxane A2 (TXA2), a potent inducer of blood vessel constriction and platelet aggregation . Also cleaves PGH2 to 12-hydroxy-heptadecatrienoic acid (12-HHT) and malondialdehyde, which is known to act as a mediator of DNA damage. 12-HHT and malondialdehyde are formed stoichiometrically in the same amounts as TXA2 . Additionally, displays dehydratase activity, toward (15S)-hydroperoxy-(5Z,8Z,11Z,13E)-eicosatetraenoate (15(S)-HPETE) producing 15-KETE and 15-HETE .

**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**

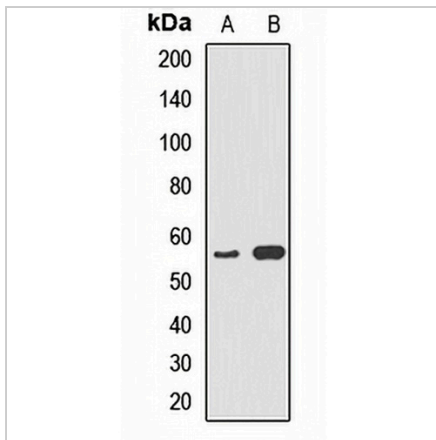
|                   |                                                                                                           |
|-------------------|-----------------------------------------------------------------------------------------------------------|
| Description       | Rabbit polyclonal antibody to Cytochrome P450 5A1                                                         |
| Specificity       | Recognizes endogenous levels of Cytochrome P450 5A1 protein.                                              |
| Antibody Type     | Primary antibody                                                                                          |
| Immunogen         | Recombinant fusion protein of human Cytochrome P450 5A1                                                   |
| Purification      | The antibody was purified by immunogen affinity chromatography.                                           |
| Molecular Weight  | Predicted: 52; Observed: 56 kD                                                                            |
| Form/Buffer       | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| Alternative Names | CYP5; CYP5A1; Thromboxane-A synthase; TXA synthase; TXS; Cytochrome P450 5A1                              |
| Gene Symbol       | TBXAS1                                                                                                    |
| Entrez Gene       | 6916(Human); 21391(Mouse)                                                                                 |
| SwissProt         | P24557(Human); P36423(Mouse)                                                                              |

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\*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 5A1 expression in A549 (A), HT29 (B) whole cell lysates. (Predicted band size: 52; 60; 65 kD; Observed band size: 56 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.