# Product Datasheet

## Anti-Cytochrome P450 17A1/CYP17A1 Antibody (orb389397)

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|---|---|
| **Description** | Anti-Cytochrome P450 17A1/CYP17A1 Antibody |
| **Species/Host** | Rabbit |
| **Reactivity** | Human, Rat |
| **Conjugation** | Unconjugated |
| **Tested Applications** | FC, IHC, WB |
| **Immunogen** | A synthetic peptide corresponding to a sequence at the C-terminus of human CYP17A1, different from the related mouse and rat sequences by ten amino acids. |
| **Form/Appearance** | Lyophilized |
| **Concentration** | Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Note** | For research use only |
| **Application notes** | Western blot, 0.1-0.5µg/ml, Human, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1µg/ml, Human Flow Cytometry (Fixed), 1-3µg/1x106 cells, Human. Add 0.2ml of distilled water will yield a concentration of 500ug/ml |
| **Isotype** | Rabbit IgG |
| **Clonality** | Polyclonal |
| **Antibody Type** | Primary Antibody |
| **MW** | 57 kDa |

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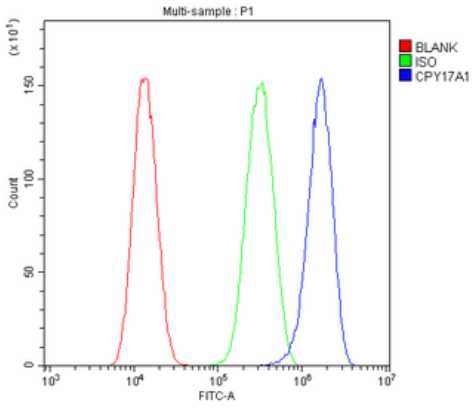
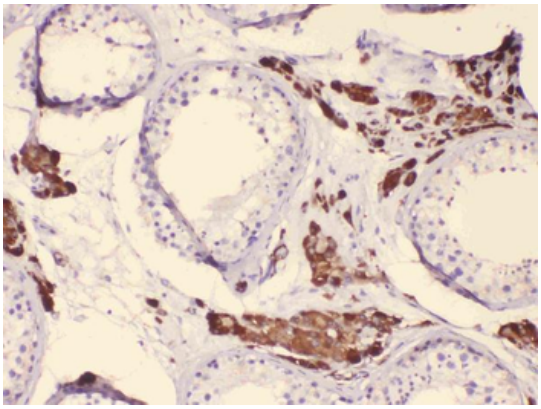
**Uniprot ID** P05093

**Expiration Date** 12 months from date of receipt.




Flow Cytometry analysis of U87 cells using anti-CYP17A1 antibody. Overlay histogram showing U87 cells (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CYP17A1 Antibody (1 µg/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (5-10 µg/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 µg/1x10^6) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



IHC analysis of CYP17A1 using anti-CYP17A1 antibody. CYP17A1 was detected in paraffin-embedded section of human testis tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 µg/ml rabbit anti-CYP17A1 Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

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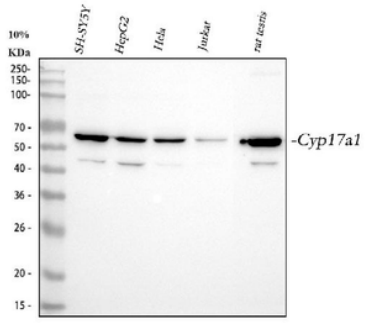


Western blot analysis of CYP17A1 using anti-CYP17A1 antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human SH-SY5Y whole cell lysates, Lane 2: human HepG2 whole cell lysates, Lane 3: human Hela whole cell lysates, Lane 4: human Jurkat whole cell lysates, Lane 5: rat testis tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CYP17A1 antigen affinity purified polyclonal antibody at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CYP17A1 at approximately 57 kDa. The expected band size for CYP17A1 is at 57 kDa.

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