Product datasheet

# Anti-DDT Antibody

**Catalog Number: *RP1011***

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antibody and ELISA experts
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## Basic Information

| | |
|---|---|
| **Product Name** | Anti-DDT Antibody |
| **Gene Name** | DDT |
| **Source** | Rabbit |
| **Isotype** | IgG |
| **Species Reactivity** | human, mouse, rat |
| **Tested Application** | WB, IHC, ELISA |
| **Contents** | 500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol. |
| **Immunogen** | E. coli-derived human DDT recombinant protein(Position: M1-L118). |
| **concentration** | 500 ug/ml |
| **Purification** | Immunogen affinity purified. |
| **Observed MW** | 13-15KD |
| **Dilution Ratios** | Western blot(WB): 1:500-2000<br>Immunohistochemistry(Paraffin-embedded Section): 1:50-400<br>ELISA: 1:100-1000<br>(Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user. |

## Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

## Background Information

DDT, D-dopachrome tautomerization, converts D-dopachrome into 5,6-dihydroxyindole. Northern blot analysis revealed that DDT was expressed as a 0.6-kb mRNA in all tissues tested, with the strongest expression in liver. The DDT gene in human and mouse is identical in exon structure to the MIF gene. Both genes have 2 introns that are located at equivalent positions, relative to a 2-fold repeat in protein structure.the genes for DDT and MIF are closely linked on human chromosome 22 and mouse chromosome 10.

## Selected Validation Data

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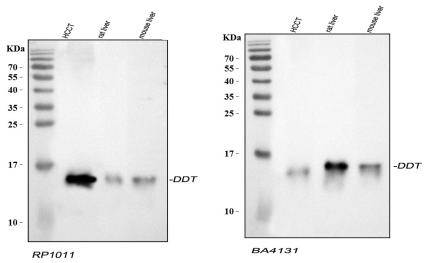


Figure 1. Western blot analysis of anti- DDT antibody (RP1011, Left) and anti-DDT antibody (BA4131, Right). The sample well of each lane was loaded with 30ug of sample under reducing conditions.
Lane 1: human hepatocellular carcinoma tumor tissue (HCCT) lysates,
Lane 2: rat liver tissue lysates,
Lane 3: mouse liver tissue lysates.
Use rabbit anti- DDT 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog#EK1002). A specific band was detected for DDT at approximately 13-15KD. The expected band size for DDT is at 13KD.

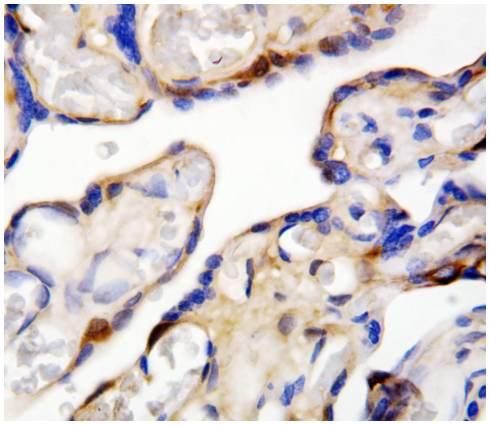

Figure 2. IHC analysis of DDT using anti- DDT antibody (RP1011). DDT was detected in paraffin-embedded section of human placenta tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti- DDT Antibody (RP1011) 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)(Catalog # SA1022) with DAB as the chromogen.