

# Anti-human DDT Antibody

Catalog # ABO12696

## Product Information

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|--------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC-P, ICC, E                                                                                                         |
| <b>Primary Accession</b> | <a href="#">P30046</a>                                                                                                    |
| <b>Host</b>              | Rabbit                                                                                                                    |
| <b>Reactivity</b>        | Human                                                                                                                     |
| <b>Clonality</b>         | Polyclonal                                                                                                                |
| <b>Format</b>            | Lyophilized                                                                                                               |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for D-dopachrome decarboxylase(DDT) detection. Tested with WB, IHC-P, ICC, ELISA in Human. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                      |

## Additional Information

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| <b>Gene ID</b>                  | 1652                                                                                                                                                                                                                                                   |
| <b>Other Names</b>              | D-dopachrome decarboxylase, 4.1.1.84, D-dopachrome tautomerase, Phenylpyruvate tautomerase II, DDT                                                                                                                                                     |
| <b>Calculated MW</b>            | 12712                                                                                                                                                                                                                                                  |
| <b>Application Details</b>      | ELISA , 0.1-0.5 $\mu$ g/ml, Human, -<br>Immunocytochemistry , 0.5-1 $\mu$ g/ml, Human, -<br>Immunohistochemistry(Paraffin-embedded Section), 0.5-1 $\mu$ g/ml, Human, By Heat<br>Western blot, 0.1-0.5 $\mu$ g/ml, Human                               |
| <b>Subcellular Localization</b> | Cytoplasm .                                                                                                                                                                                                                                            |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                                                                                              |
| <b>Protein Name</b>             | D-dopachrome decarboxylase                                                                                                                                                                                                                             |
| <b>Contents</b>                 | Each vial contains 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> . Carrier free (No BSA) form available in stock. If you want this antibody carrier free please specify Carrier Free" or "No BSA" in your order note. " |
| <b>Immunogen</b>                | E. coli-derived human DDT recombinant protein(Position: M1-L118).                                                                                                                                                                                      |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                                                                                                                           |
| <b>Cross Reactivity</b>         | No cross reactivity with other proteins                                                                                                                                                                                                                |
| <b>Storage</b>                  | At -20° C for one year. After r° Constitution, at 4° C for one month. It° Can also                                                                                                                                                                     |

be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.

## Protein Information

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|--------------------------|-----------------------------------------------------------------------------------------|
| <b>Name</b>              | DDT                                                                                     |
| <b>Function</b>          | Tautomerization of D-dopachrome with decarboxylation to give 5,6-dihydroxyindole (DHI). |
| <b>Cellular Location</b> | Cytoplasm.                                                                              |
| <b>Tissue Location</b>   | Highly expressed in the liver and at lower levels in the heart, lung and pancreas.      |

## Background

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.

## Images



Figure. Western blot analysis of DDT using anti- DDT antibody (ABO12696). 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 50ug of sample under reducing conditions.Lane: Recombinant Human DDT Protein 0.5ngAfter Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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- DDT antigen affinity purified polyclonal antibody (Catalog # ABO12696) 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 1:10000 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 DDT at approximately 15KD. The expected band size for DDT is at 15KD.

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