Datasheet for ABIN3042807

anti-DDT antibody (AA 1-118)

1 Image

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Overview

Quantity:	100 µg
Target:	DDT
Binding Specificity:	AA 1-118
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DDT antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Purpose:	Anti-D-dopachrome decarboxylase DDT Antibody Picoband®
Immunogen:	E. coli-derived human DDT recombinant protein (Position: M1-L118).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-D-dopachrome decarboxylase DDT Antibody (ABIN3042807). Tested in ELISA, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	DDT
Alternative Name:	DDT (DDT Products)
Background:	Synonyms: D-dopachrome decarboxylase,4.1.1.84,D-dopachrome tautomerase,Phenylpyruvate tautomerase II,DDT, 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. Sequence Similarities: Belongs to the SCF family.
Molecular Weight:	13-15 kDa
UniProt:	P30046

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human ELISA, 0.1-0.5 µg/mL, -, 1. Esumi, N., Budarf, M., Ciccarelli, L., Sellinger, B., Kozak, C. A., Wistow, G.Conserved gene structure and genomic linkage for D-dopachrome tautomerase (DDT) and MIF.Mammalian Genome 9: 753-757, 1998. 2. Nishihira, J., Fujinaga, M., Kuriyama, T., Suzuki, M., Sugimoto, H., Nakagawa, A., Tanaka, I., Sakai, M.Molecular cloning of human D-dopachrome tautomerase cDNA: N-terminal proline is essential for enzyme activation.Biochem. Biophys. Res. Commun. 243: 538-544, 1998.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL

Handling

Buffer:	Each vial contains 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide. Carrier free (No BSA)
Preservative:	Sodium azide, Without preservative
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

Images

Western Blotting

Image 1. Western blot analysis of DDT using anti- DDT 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 50ug of sample under reducing conditions. Lane: Recombinant Human DDT Protein 0.5ng After 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 #) 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 (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for DDT at approximately 15KD. The expected band size for DDT is at 15KD.