

Anti-ADX Antibody

HA500468



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB
Molecular Wt:	Predicted band size: 19 kDa

Description: Adrenal ferredoxin (also adrenodoxin (ADX), adrenodoxin, mitochondrial, hepatoredoxin, ferredoxin-1 (FDX1)) is a protein that in humans is encoded by the FDX1 gene. In addition to the expressed gene at this chromosomal locus (11q22), there are pseudogenes located on chromosomes 20 and 21. Adrenodoxin is a small iron-sulfur protein that can accept and carry a single electron. Adrenodoxin functions as an electron transfer protein in the mitochondrial cytochrome P450 systems. The first enzyme in this system is adrenodoxin reductase that carries an FAD. FAD can be reduced by two electrons donated from coenzyme NADPH. These two electrons are transferred one a time to adrenodoxin. Adrenodoxin in return reduces mitochondrial cytochrome P450. This particular oxidation/reduction system is involved in the synthesis of steroid hormones in steroidogenic tissues. In addition, similar systems also function in vitamin D and bile acid synthesis in the kidney and liver respectively. Adrenodoxin has been identified in a number of different tissues but all forms have been shown to be identical and are not tissue specific.

Immunogen: Recombinant protein within human ADX aa 50-184.

Positive control: SiHa cell lysate, SK-Br-3 cell lysate, K562 cell lysate, HepG2 cell lysate, 293T cell lysate, mouse liver tissue lysate, rat liver tissue lysate, rat testis tissue lysate.

Subcellular location: Mitochondrion matrix.

Database links: SwissProt: P10109 Human | P46656 Mouse | P24483 Rat

Recommended Dilutions:
WB 1:500

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

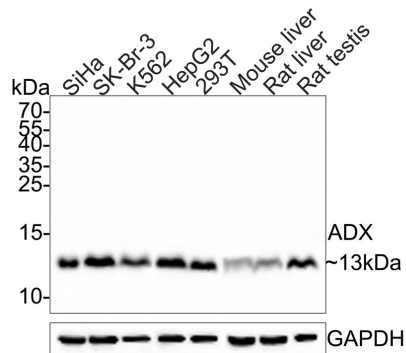
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Images

Fig1: Western blot analysis of ADX on different lysates with Rabbit anti-ADX antibody (HA500468) at 1/500 dilution.



Lane 1: SiHa cell lysate (15 µg/Lane)

Lane 2: SK-Br-3 cell lysate (15 µg/Lane)

Lane 3: K562 cell lysate (15 µg/Lane)

Lane 4: HepG2 cell lysate (15 µg/Lane)

Lane 5: 293T cell lysate (15 µg/Lane)

Lane 6: Mouse liver tissue lysate (30 µg/Lane)

Lane 7: Rat liver tissue lysate (30 µg/Lane)

Lane 8: Rat testis tissue lysate (30 µg/Lane)

Predicted band size: 19 kDa

Observed band size: 13 kDa

Exposure time: 2 minutes;

15% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody (HA500468) at 1/500 dilution was used in 5% NFDN/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:300,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Zhang Z et al. FDX1 can Impact the Prognosis and Mediate the Metabolism of Lung Adenocarcinoma. Front Pharmacol. 2021 Oct
2. Wang Z et al. The role of FDX1 in granulosa cell of Polycystic ovary syndrome (PCOS). BMC Endocr Disord. 2021 Jun

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