

Human Aldo-keto reductase 7A3/AKR7A3 antibody

Catalog Number: ATGA0216

PRODUCT INFORMATION

Catalog number

ATGA0216

Clone No.

AT2E11

Product type

Monoclonal Antibody

UnitProt No.

O95154

NCBI Accession No.

AAH25709

Alternative Names

Aldo-keto reductase family 7 member A 3, Aflatoxin B1 aldehyde reductase member 3, AFB1 aldehyde reductase 2(AFAR2), AFB1 AR 2, Aflatoxin aldehyde reductase, Aflatoxin B1 aldehyde reductase 2

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human AKR7A3 (1-331aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA, WB

Usage

The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Aldo-keto reductase family 7, member A 3 (AKR7A3) is a member of the aldo/keto reductase superfamily involved in the detoxification and metabolism of a variety of exogenous aldehydes and ketones. The activity of AKR7A3 may detoxify the aflatoxin B1 (AFB1) dialdehyde, which reacts with proteins, and thereby inhibits AFB1 induced toxicity. AKR7A3 is expressed in kidney, colon, pancreas, endometrium and adenocarcinoma.

General References

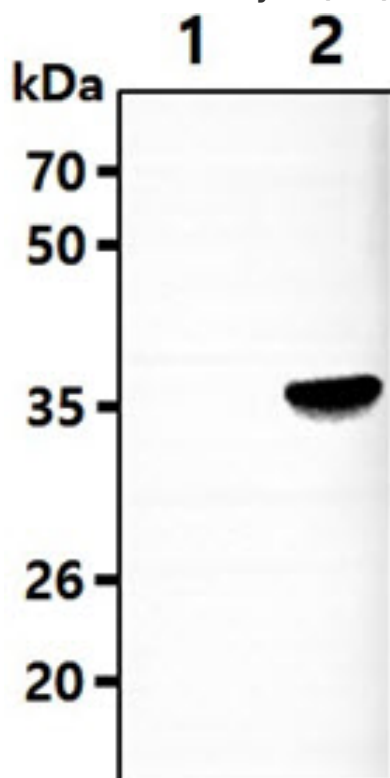
Chem Res Toxicol 2008, 21:1134-1142.

J. Biol. Chem. 267 (34): 24841-7.

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DATA

Western blot analysis (WB)



The cell lysates (5ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human AKR7A3 antibody (1:3000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: 293T cell lysate
Lane 2.: AKR7A3 Transfected 293T cell lysate