

Human Aldo-keto Reductase 1C1/AKR1C1 antibody

Catalog Number: ATGA0201

PRODUCT INFORMATION

Catalog number

ATGA0201

Clone No.

AT6D10

Product type

Monoclonal Antibody

UnitProt No.

Q04828

NCBI Accession No.

NP_001344

Alternative Names

Aldo-keto reductase family 1 member C1, DDH1, DDH, MBAB, DD1, HAKRC, Dihydrodiol dehydrogenase 1, 20-alpha (3-alpha)-hydroxysteroid dehydrogenase, High-affinity hepatic bile acid-binding protein (HBAB)

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 AKR1C1 (1-323aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA, WB, ICC/IF, FACS

Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS 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

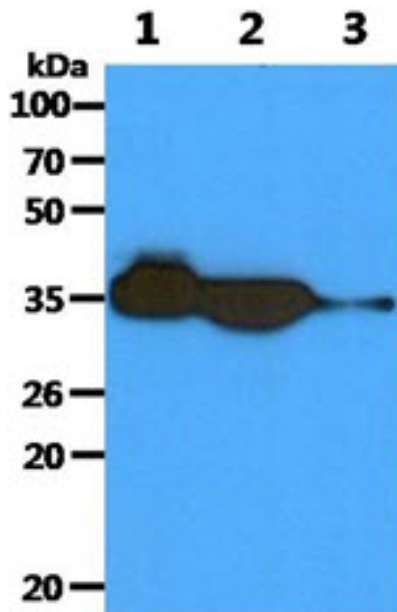
The human aldo-keto reductases 1C1 and 1C3 (AKR1C1 and AKR1C3) have major roles in pre receptor regulation of progesterone action. They can both convert progesterone to the less potent efficiencies. AKR1C1 and AKR1C3 also act as 3-ketosteroid reductase, and as such they can convert the most potent androgen 5alpha-DHT into 3beta-andorstandiol, which is an estrogen receptor beta ligand, and into the inactive androgen 3alpha-androstnionl, respectively.

General References

- L.C. Giudice, et al. (2004) Lancet. 3644: 1789-1799.
- P.G. Hompes, et al. (2007) Gynecol. Endocrinol. 23: 5-12.
- K.J. Berkley, et al. (2005) Science 308: 1587-1589.

DATA

Western blot analysis (WB)



The Recombinant protein (50ng) and Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human AKR1C1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1. : Recombinant Human AKR1C1

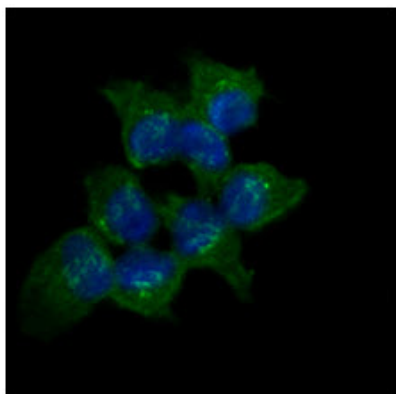
Lane 2. : HepG2 cell lysate

Lane 3. : Raji cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

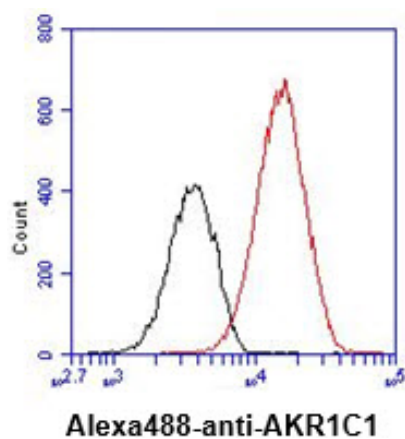
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ICC/IF analysis of AKR1C1 in A431 cells. The cell was stained with ATGA0201 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



Flow cytometry analysis of AKR1C1 in A431 cell line, staining at 2-5ug for 1×10^6 cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).