Product information

Monoclonal anti-human AKR1C1 antibody (clone AT6D10)

Mouse IgG_1, κ

Cat. No. IBATGA0201

Immunogen: Recombinant human AKR1C1 (1-323aa) purified from E. coli

NCBI Accession No.: NP_001344

Isotype: Mouse IgG_1 heavy chain and κ light chain

Clone: Anti-human AKR1C1 mAb, clone AT6D10, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human AKR1C1 protein.

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.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol

Storage: Can be stored at +4°C. For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

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

Application: ELISA, WB, ICC/IF, Flow cyt

Manufactured for:
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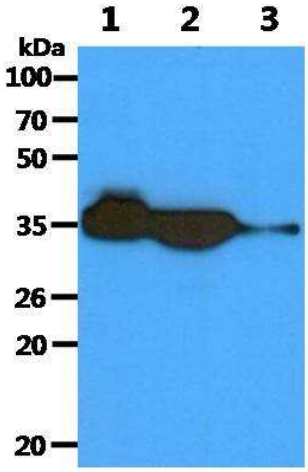
Western blot analysis

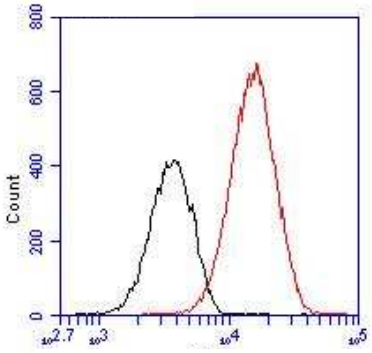
The Recombinant protein (50ng) and Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human AKR1C1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1. : Recombinant Human AKR1C1
Lane 2. : HepG2 cell lysate
Lane 3. : Raji cell lysate



Flow cytometry

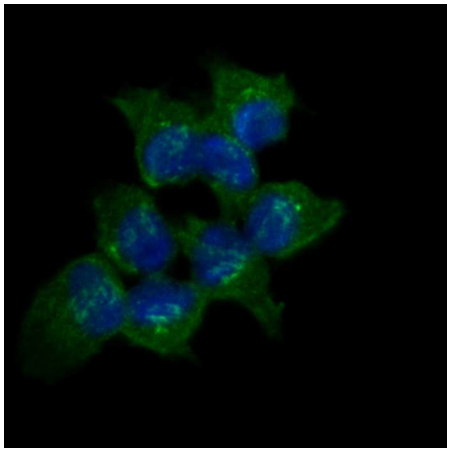
Flow cytometry analysis of AKR1C1 in A431 cell line, staining at 2-5ug for 1x10^{6}cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



Alexa488-anti-AKR1C1

ICC/IF analysis

ICC/IF analysis of AKR1C1 in A431 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human AKR1C1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



General references:

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Hompes PG., *et al.* (2007) *Gynecol Endocrinol.* **23:** 5–12.

Berkley KJ., *et al.* (2005) *Science.* **308:** 1587–1589.

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