

# Anti-AKR1C1 Antibody [5-F10-R] - BSA and Azide free

## HA610058



<b>Product Type:</b>	Recombinant Mouse monoclonal IgG1, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB, IF-Cell
<b>Molecular Wt:</b>	Predicted band size: 36.8 kDa
<b>Clone number:</b>	5-F10-R

**Description:** Cytosolic aldo-keto reductase that catalyzes the NADH and NADPH-dependent reduction of ketosteroids to hydroxysteroids. Most probably acts as a reductase in vivo since the oxidase activity measured in vitro is inhibited by physiological concentrations of NADPH. Displays a broad positional specificity acting on positions 3, 17 and 20 of steroids and regulates the metabolism of hormones like estrogens and androgens. May also reduce conjugated steroids such as 5alpha-dihydrotestosterone sulfate. Displays affinity for bile acids.

**Immunogen:** Recombinant protein within Human AKR1C1 aa 180-323 / 323.

**Positive control:** HepG2 cell lysate, U-87 MG cell lysate, HeLa cell lysate, A431 cell lysate, human liver tissue lysate, HeLa.

**Subcellular location:** Cytoplasm.

**Database links:** SwissProt: Q04828 Human

**Recommended Dilutions:**

<b>WB</b>	1:1,000
<b>IF-Cell</b>	1:100

**Storage Buffer:** 1\*PBS (pH7.4).

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

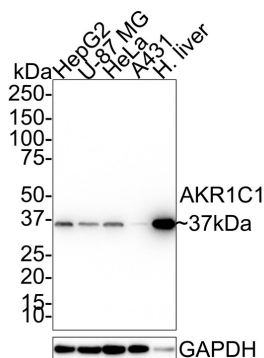
Service mail:support@huabio.cn

  
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## Images

**Fig1:** Western blot analysis of AKR1C1 on different lysates with Mouse anti-AKR1C1 antibody (HA610058) at 1/1,000 dilution.

Lane 1: HepG2 cell lysate (20 µg/Lane)  
 Lane 2: U-87 MG cell lysate (20 µg/Lane)  
 Lane 3: HeLa cell lysate (20 µg/Lane)  
 Lane 4: A431 cell lysate (20 µg/Lane)  
 Lane 5: Human liver tissue lysate (40 µg/Lane)



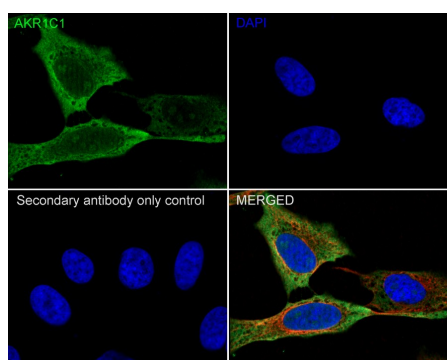
Predicted band size: 37 kDa  
 Observed band size: 37 kDa

Exposure time: 30 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (HA610058) at 1/1,000 dilution was used in 5% NFDm/TBST at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/100,000 dilution was used for 1 hour at room temperature.

**Fig2:** Immunocytochemistry analysis of HeLa cells labeling AKR1C1 with Mouse anti-AKR1C1 antibody (HA610058) at 1/100 dilution.



Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Mouse anti-AKR1C1 antibody (HA610058) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 488, HA1125) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

beta Tubulin (ET1602-4, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Rabbit IgG H&L (iFluor™ 594, HA1122) were used as the secondary antibody at 1/1,000 dilution.

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

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### Background References

1. Woo S et al. AKR1C1 as a Biomarker for Differentiating the Biological Effects of Combustible from Non-Combustible Tobacco Products. *Genes (Basel)* 8(5) (2017).
2. Zeng CM et al. Aldo-Keto Reductase AKR1C1-AKR1C4: Functions, Regulation, and Intervention for Anti-cancer Therapy. *Front Pharmacol* 8:119 (2017).

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