

## ARG40837 anti-AKR1C1 + AKR1C2 antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes AKR1C1 + AKR1C2
Tested Reactivity	Hu, Rat
Tested Application	WB
Specificity	This antibody might also react to AKR1C3 and AKR1C4 based on sequence homology analysis (> 80%).
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	AKR1C1 + AKR1C2
Species	Human
Immunogen	Recombinant protein corresponding to M1-K123 of Human AKR1C1/C2.
Conjugation	Un-conjugated
Alternate Names	Chlordecone reductase homolog HAKRD; Trans-1,2-dihydrobenzene-1,2-diol dehydrogenase; MCDR2; DD; SRXY8; DD/BABP; Dihydrodiol dehydrogenase 2; EC 1.-.-.-; DD2; HBAB; Dihydrodiol dehydrogenase/bile acid-binding protein; Aldo-keto reductase family 1 member C2; 3-alpha-HSD3; DDH2; EC 1.3.1.20; EC 1.1.1.357; BABP; Type III 3-alpha-hydroxysteroid dehydrogenase; AKR1C-pseudo; DD-2; TDD; HAKRD

### Application Instructions

Application table	Application	Dilution
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.9% NaCl, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

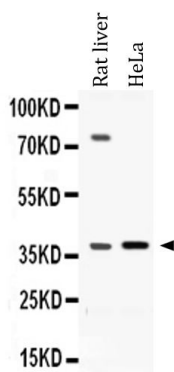
**Note**

For laboratory research only, not for drug, diagnostic or other use.

**Bioinformation**

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Gene Symbol	AKR1C2
Gene Full Name	aldo-keto reductase family 1, member C2
Background	This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. These enzymes catalyze the conversion of aldehydes and ketones to their corresponding alcohols using NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. This enzyme binds bile acid with high affinity, and shows minimal 3-alpha-hydroxysteroid dehydrogenase activity. This gene shares high sequence identity with three other gene members and is clustered with those three genes at chromosome 10p15-p14. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]
Function	Works in concert with the 5-alpha/5-beta-steroid reductases to convert steroid hormones into the 3-alpha/5-alpha and 3-alpha/5-beta-tetrahydrosteroids. Catalyzes the inactivation of the most potent androgen 5-alpha-dihydrotestosterone (5-alpha-DHT) to 5-alpha-androstane-3-alpha,17-beta-diol (3-alpha-diol). Has a high bile-binding ability. [UniProt]
Calculated Mw	37 kDa
Cellular Localization	Cytoplasm. [UniProt]

**Images**

ARG40837 anti-AKR1C1 + AKR1C2 antibody WB image

Western blot: Rat liver and HeLa whole cell lysates stained with ARG40837 anti-AKR1C1 + AKR1C2 antibody at 0.5 µg/ml dilution.