

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 ₂ HPO ₄ , 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.

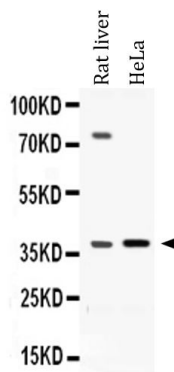
Note

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

Bioinformation

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.