

DATASHEET

AKR1C4 Rabbit Polyclonal Antibody

CAT. NO. APA13296

KEY FEATURES

Target	AKR1C4	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

BACKGROUND

Cytosolic aldo-keto reductase that catalyzes NADPH-dependent reduction of ketosteroids to hydroxysteroids. Displays broad substrate specificity with distinct positional and stereochemistry, primarily generating 3alpha/beta-, 17beta- and 20alpha-hydroxysteroids. Required for male sex determination as a component of the 'backdoor' androgen biosynthesis pathway that generates 5alpha-dihydrotestosterone (5alpha-DHT) via pregnanes. Acts together with AKR1C2 to convert 5alpha-dihydroprogesterone (5alpha-DHP) to 3alpha-hydroxy-5alpha-pregnan-20-one (3alpha,5alpha-THP/allopregnanolone), leading to 5alpha-DHT secretion necessary for embryonic gonad differentiation into testis. May regulate the concentrations of circulating neurosteroids.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
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*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

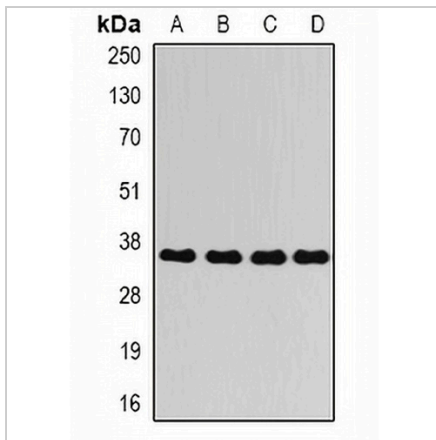
Description	Rabbit polyclonal antibody to AKR1C4
Specificity	Recognizes endogenous levels of AKR1C4 protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human AKR1C4
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 37 kD; Observed: 37 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	CHDR; Aldo-keto reductase family 1 member C4; 3-alpha-HSD1; 3-alpha-hydroxysteroid dehydrogenase type I; Chlordecone reductase; CDR; Dihydrodiol dehydrogenase 4; DD-4; DD4; HAKRA
Gene Symbol	AKR1C4
Entrez Gene	1109(Human)
SwissProt	P17516(Human)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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DATA

Western blot analysis of AKR1C4 expression in A549 (A), SW620 (B), mouse lung (C), rat liver (D) whole cell lysates. (Predicted band size: 37 kD; Observed band size: 37 kD)

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.