

**DATASHEET**

**AKR1D1 Rabbit Polyclonal Antibody**

CAT. NO. APA15041

**KEY FEATURES**

Target	AKR1D1	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**

Catalyzes the stereospecific NADPH-dependent reduction of the C4-C5 double bond of bile acid intermediates and steroid hormones carrying a delta(4)-3-one structure to yield an A/B cis-ring junction. This cis-configuration is crucial for bile acid biosynthesis and plays important roles in steroid metabolism. Capable of reducing a broad range of delta-(4)-3-ketosteroids from C18 (such as, 17beta-hydroxyestr-4-en-3-one) to C27 (such as, 7alpha-hydroxycholest-4-en-3-one).

**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**

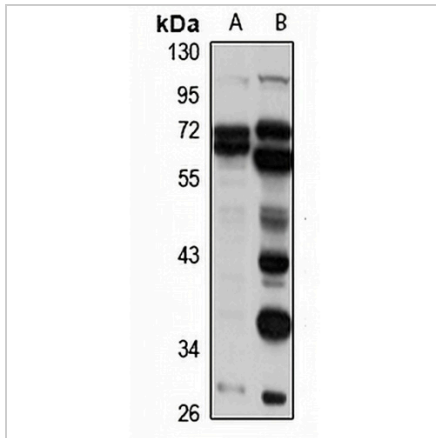
Description	Rabbit polyclonal antibody to AKR1D1
Specificity	Recognizes endogenous levels of AKR1D1 protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human AKR1D1. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 32; Observed: 30 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	SRD5B1; 3-oxo-5-beta-steroid 4-dehydrogenase; Aldo-keto reductase family 1 member D1; Delta(4)-3-ketosteroid 5-beta-reductase; Delta(4)-3-oxosteroid 5-beta-reductase
Gene Symbol	AKR1D1
Entrez Gene	6718(Human); 208665(Mouse); 192242(Rat)
SwissProt	P51857(Human); Q8VCX1(Mouse); P31210(Rat)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto: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 AKR1D1 expression in HeLa (A), mouse liver (B) whole cell lysates. (Predicted band size: 32; 37 kD; Observed band size: 30 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.