

**AKR1C1 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP50969****Specification**

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**AKR1C1 Antibody - Product Information**

Application	WB, IHC-P, E
Primary Accession	<a href="#">Q04828</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37 KDa

**AKR1C1 Antibody - Additional Information****Gene ID** 1645**Other Names**

Aldo-keto reductase family 1 member C1, 111-, 20-alpha-hydroxysteroid dehydrogenase, 20-alpha-HSD, Chlordecone reductase homolog HAKRC, Dihydrodiol dehydrogenase 1/2, DD1/DD2, High-affinity hepatic bile acid-binding protein, HBAB, Indanol dehydrogenase, Trans-1, 2-dihydrobenzene-1, 2-diol dehydrogenase, AKR1C1, DDH, DDH1

**Dilution**

WB~~1:1000  
IHC-P~~N/A  
E~~N/A

**Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**AKR1C1 Antibody - Protein Information****Name** AKR1C1**Synonyms** DDH, DDH1**Function**

Cytosolic aldo-keto reductase that catalyzes the NADH and NADPH-dependent reduction of ketosteroids to hydroxysteroids (PubMed: [19218247](http://www.uniprot.org/citations/19218247)). Most probably acts as a reductase in vivo since the oxidase activity measured in vitro is inhibited by physiological concentrations of NADPH (PubMed: [14672942](http://www.uniprot.org/citations/14672942)). Displays a broad positional specificity acting on positions 3, 17 and 20 of steroids and regulates the metabolism of hormones like estrogens and androgens (PubMed: [14672942](#)).

[10998348](http://www.uniprot.org/citations/10998348)). May also reduce conjugated steroids such as 5alpha- dihydrotestosterone sulfate (PubMed:[19218247](http://www.uniprot.org/citations/19218247)). Displays affinity for bile acids (PubMed:[8486699](http://www.uniprot.org/citations/8486699)).

**Cellular Location**

Cytoplasm, cytosol.

**Tissue Location**

Expressed in all tissues tested including liver, prostate, testis, adrenal gland, brain, uterus, mammary gland and keratinocytes. Highest levels found in liver, mammary gland and brain

**AKR1C1 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**AKR1C1 Antibody - Images****AKR1C1 Antibody - Background**

Converts progesterone to its inactive form, 20-alpha- dihydroxyprogesterone (20-alpha-OHP). In the liver and intestine, may have a role in the transport of bile. May have a role in monitoring the intrahepatic bile acid concentration. Has a low bile-binding ability. May play a role in myelin formation.

**AKR1C1 Antibody - References**

Stolz A.,et al.J. Biol. Chem. 268:10448-10457(1993).  
Lou H.,et al.J. Biol. Chem. 269:8416-8422(1994).  
Ciaccio P.J.,et al.J. Biol. Chem. 269:15558-15562(1994).  
Khanna M.,et al.J. Steroid Biochem. Mol. Biol. 53:41-46(1995).  
Nishizawa M.,et al.Genes Cells 5:111-125(2000).