

**AKR1D1 antibody - middle region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI14572****Specification**

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**AKR1D1 antibody - middle region - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P51857</a>
Other Accession	<a href="#">NM_005989</a> , <a href="#">NP_005980</a>
Reactivity	<b>Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Dog</b>
Predicted Host	<b>Human, Mouse, Rat, Chicken, Bovine, Dog Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>37kDa KDa</b>

**AKR1D1 antibody - middle region - Additional Information****Gene ID** 6718**Alias Symbol** **3o5bred, CBAS2, SRD5B1****Other Names**

3-oxo-5-beta-steroid 4-dehydrogenase, 1.3.1.3, Aldo-keto reductase family 1 member D1, Delta(4)-3-ketosteroid 5-beta-reductase, Delta(4)-3-oxosteroid 5-beta-reductase, AKR1D1, SRD5B1

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-AKR1D1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

AKR1D1 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

**AKR1D1 antibody - middle region - Protein Information****Name** AKR1D1**Synonyms** SRD5B1**Function**

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).

**Cellular Location**

Cytoplasm.

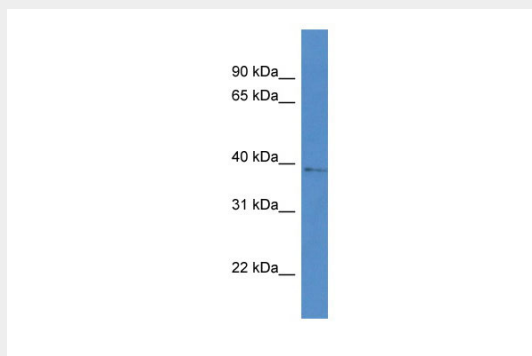
**Tissue Location**

Highly expressed in liver. Expressed in testis and weakly in colon.

**AKR1D1 antibody - middle region - 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](#)

**AKR1D1 antibody - middle region - Images**

WB Suggested Anti-AKR1D1 Antibody Titration: 1.0  $\mu$ g/ml

Positive Control: RPMI-8226 Whole Cell

**AKR1D1 antibody - middle region - References**

- Kondo K.-H., et al. Eur. J. Biochem. 219:357-363(1994).  
Charbonneau A., et al. Biochim. Biophys. Acta 1517:228-235(2001).  
Ota T., et al. Nat. Genet. 36:40-45(2004).  
Hillier L.W., et al. Nature 424:157-164(2003).  
Scherer S.W., et al. Science 300:767-772(2003).