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AKR1D1 antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI14572

Product Information

Application	WB
Primary Accession	P51857
Other Accession	NM_005989, NP_005980
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Horse, Bovine
Predicted	Human, Mouse, Rat, Chicken, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37377

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.

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).

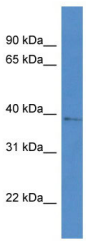
Cellular Location Cytoplasm.

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

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).

Images



WB Suggested Anti-AKR1D1 Antibody Titration: 1.0 µg/ml
Positive Control: RPMI-8226 Whole Cell

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.