

AKR1D1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58262

Specification

AKR1D1 Polyclonal Antibody - Product Information

Application IHC-P, IHC-F, IF, E

Primary Accession P51857

Reactivity
Host
Clonality
Rat, Dog, Bovine
Rabbit
Polyclonal

Calculated MW 37 KDa
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived

from human AKR1D1

Epitope Specificity 101-200/326

Isotype IgG
Purity

affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Cytoplasm.

SIMILARITY Belongs to the aldo/keto reductase family.

DISEASE Congenital bile acid synthesis defect 2

(CBAS2) [MIM:235555]: A condition characterized by jaundice, intrahepatic cholestasis and hepatic failure. Patients with this liver disease show absence or low levels of chenodeoxycholic acid and cholic

acid in plasma and urine. Note=The disease is caused by mutations affecting the gene represented in this entry.

Important Note

This product as supplied is intended for research use only, not for use in human.

therapeutic or diagnostic applications.

Background Descriptions

Efficiently catalyzes the reduction of progesterone, androstenedione,

17-alpha-hydroxyprogesterone and testosterone to 5-beta-reduced metabolites. The bile acid intermediates 7-alpha,12-alpha-dihydroxy-4-cholesten-3-one and

7-alpha-hydroxy-4-cholesten-3-one can also act as substrates.

AKR1D1 Polyclonal Antibody - Additional Information

Gene ID 6718

Other Names

Aldo-keto reductase family 1 member D1, 1.3.1.3, 3-oxo-5-beta-steroid 4-dehydrogenase,



Delta(4)-3-ketosteroid 5-beta-reductase, Delta(4)-3-oxosteroid 5-beta-reductase, AKR1D1, SRD5B1

Target/Specificity

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

Dilution

- IHC-P~~N/A<br \><span class
 ="dilution_IHC-F">IHC-F~~N/A<br \><span class</pre>
- ="dilution IF">IF~~1:50~200
span class = "dilution E">E~~N/A

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 $^{\circ}$ C.

AKR1D1 Polyclonal Antibody - 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.

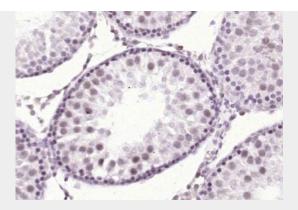
AKR1D1 Polyclonal Antibody - Protocols

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

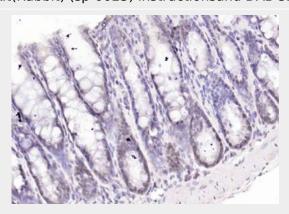
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

AKR1D1 Polyclonal Antibody - Images





Paraformaldehyde-fixed, paraffin embedded (rat testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (AKR1D1) Polyclonal Antibody, Unconjugated (bs-5026R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (AKR1D1) Polyclonal Antibody, Unconjugated (bs-5026R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.