

For Research Use Only

# HSD3B2 Polyclonal antibody

Catalog Number: 15516-1-AP **8 Publications**



## Basic Information

**Catalog Number:**

15516-1-AP

**Size:**

500 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG7782

**GenBank Accession Number:**

BC038419

**GeneID (NCBI):**

3284

**UNIPROT ID:**

P26439

**Full Name:**

hydroxy-delta-5-steroid  
dehydrogenase, 3 beta- and steroid  
delta-isomerase 2

**Calculated MW:**

42 kDa

**Observed MW:**

42 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:5000

IHC 1:50-1:500

## Applications

**Tested Applications:**

WB, IHC, ELISA

**Cited Applications:**

WB, IF, IHC

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, rat, mouse, canine

**Positive Controls:**

WB : mouse testis tissue,

IHC : rat testis tissue,

**Note-IHC: suggested antigen retrieval with  
TE buffer pH 9.0; (\*) Alternatively, antigen  
retrieval may be performed with citrate  
buffer pH 6.0**

## Background Information

HSD3B2(3-beta-hydroxy-Delta(5)-steroid dehydrogenase) belongs to the 3-beta-HSD family and catalyzes the oxidation and isomerization of delta-5-3-beta-hydroxysteroid precursors into delta-4-ketosteroids, thus leading to the formation of all classes of steroid hormones. HSD3B2 is expressed almost exclusively in adrenals and gonads, whereas HSD3B1 is expressed predominantly in placenta and skin (PMID:1682237). HSD3B2 plays a crucial role in steroid hormone biosynthesis and is thus of particular interest in hormone dependent tumors such as prostate cancer. Compared with normal tissue cytoplasmic HSD3B2 staining was stronger in prostate cancers (PMID: 29803408). Defects in HSD3B2 are the cause of adrenal hyperplasia type 2 (AH2).

## Notable Publications

Author	Pubmed ID	Journal	Application
Bao Hui Lee	26465200	Endocrinology	WB, IHC
Liping Wen	28152522	Oncotarget	WB
Guillaume Richer	35002756	Front Physiol	IF

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

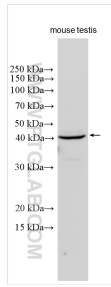
T: 4006900926

E: Proteintech-CN@ptglab.com

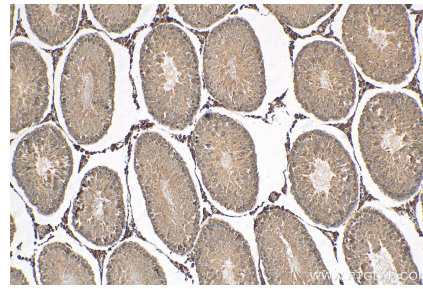
W: ptgcn.com

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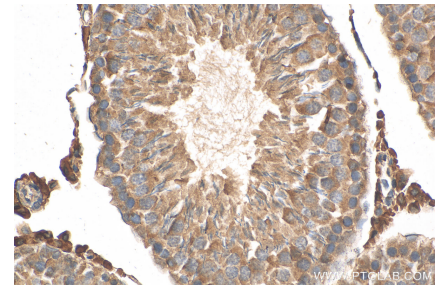
## Selected Validation Data



mouse testis tissue was subjected to SDS PAGE followed by western blot with 15516-1-AP (HSD3B2 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat testis tissue slide using 15516-1-AP (HSD3B2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat testis tissue slide using 15516-1-AP (HSD3B2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).