

For Research Use Only

HSD3B2 Polyclonal antibody

Catalog Number: 15516-1-AP

12 Publications



Basic Information

Catalog Number:

15516-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

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

FC (Intra): 0.25 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, canine

Positive Controls:

WB : mouse testis tissue,

IHC : rat testis tissue,

FC (Intra) : HeLa cells,

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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

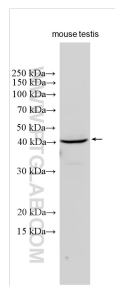
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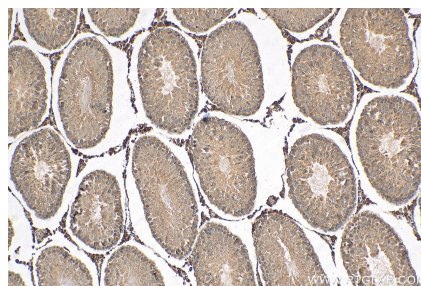
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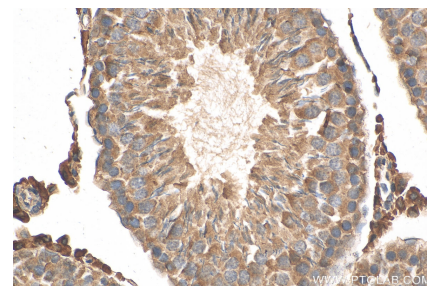
Selected Validation Data



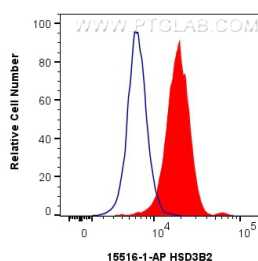
mouse testis tissue was subjected to SDS PAGE followed by western blot with 15516-1-AP (HSD3B2 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



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).



1×10^6 HeLa cells were intracellularly stained with 0.25 μ g HSD3B2 Polyclonal antibody (15516-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 μ g Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).