

For Research Use Only

HSD3B2 Polyclonal antibody

Catalog Number: 15516-1-AP **7 Publications**



Basic Information

Catalog Number: 15516-1-AP	GenBank Accession Number: BC038419	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop;	GeneID (NCBI): 3284	Recommended Dilutions: WB 1:1000-1:5000 IHC 1:50-1:500
Source: Rabbit	Full Name: hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 2	
Isotype: IgG	Calculated MW: 42 kDa	
Immunogen Catalog Number: AG7782	Observed MW: 42 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : mouse testis tissue, IHC : rat testis tissue,
Cited Applications: IF, IHC, WB	
Species Specificity: human, mouse	
Cited Species: human, rat, mouse, canine	

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

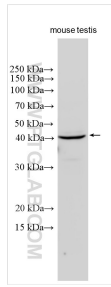
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

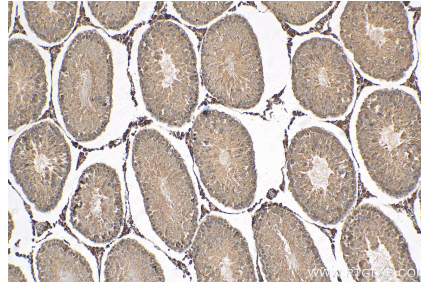
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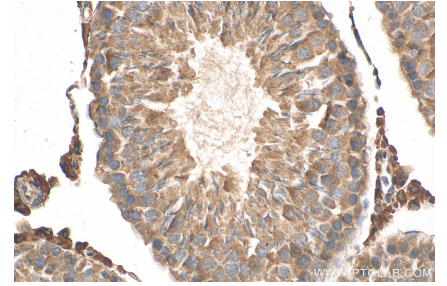
Selected Validation Data



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).