

For Research Use Only

DMRT1 Polyclonal antibody

Catalog Number: 14313-1-AP



Basic Information

Catalog Number:

14313-1-AP

Size:

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

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5547

GenBank Accession Number:

BC040847

GeneID (NCBI):

1761

UNIPROT ID:

Q9Y5R6

Full Name:

doublesex and mab-3 related transcription factor 1

Calculated MW:

39 kDa

Observed MW:

39 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF-P 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF-P, IP, ELISA

Species Specificity:

human, mouse, rat

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

Positive Controls:

WB : mouse testis tissue, rat testis tissue

IP : mouse testis tissue,

IHC : mouse testis tissue, human testis

IF-P : mouse testis tissue,

Background Information

DMRT1, also named DMT1, belongs to the DMRT family. DMRT1 is one of the most conserved transcription factors in a variety of species and is involved in sex determination and germ cell differentiation. DMRT1 prevents the sexual switch from male to female, represses pluripotency, and balances mitosis versus meiosis. DMRT1 also maintains spermatogenesis and replenishes mGSCs by collaborating with Plzf and Sal-like protein 4 (PMID: 33420764). DMRT1 has 3 isoforms with the molecular mass of 18, 29, and 39 kDa.

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

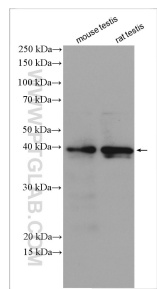
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

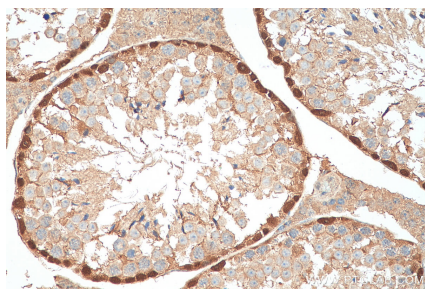
E: proteintech@ptglab.com
W: ptglab.com

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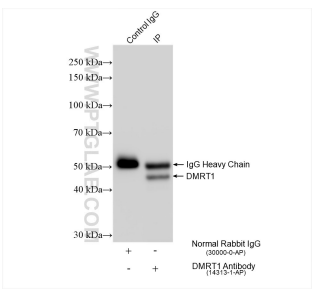
Selected Validation Data



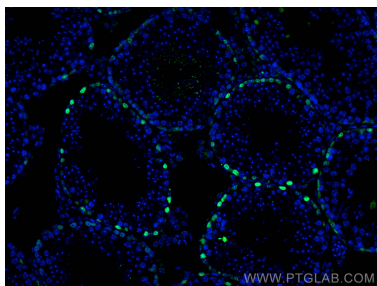
Various lysates were subjected to SDS PAGE followed by western blot with 14313-1-AP (DMRT1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



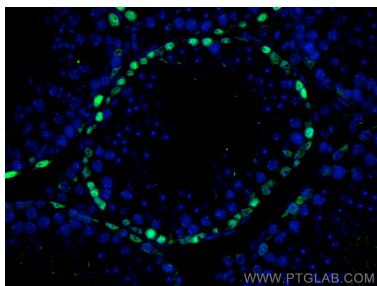
Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 14313-1-AP (DMRT1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-DMRT1 (IP:14313-1-AP, 4ug; Detection:14313-1-AP 1:500) with mouse testis tissue lysate 2400 ug.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse testis tissue using DMRT1 antibody (14313-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse testis tissue using DMRT1 antibody (14313-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).