

ID4 Polyclonal antibody

Catalog Number: 21803-1-AP

Basic Information

Catalog Number:

21803-1-AP

Size:

300 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG16883

GenBank Accession Number:

BC014941

GeneID (NCBI):

3400

UNIPROT ID:

P47928

Full Name:

inhibitor of DNA binding 4, dominant
negative helix-loop-helix protein

Calculated MW:

161 aa, 17 kDa

Observed MW:

25-30 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

Applications

Tested Applications:

IHC, WB, 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 : HepG2 cells, K-562 cells, MDA-MB-231 cells,
mouse testis tissue

IHC : mouse testis tissue, rat testis tissue

Background Information

ID4 (inhibitor of DNA binding 4) negatively regulates the basic helix-loop-helix (bHLH) transcription factors by forming heterodimers and inhibiting their DNA binding and transcriptional activity. (PMID: 19783986). ID4 levels dictate the stem cell state in mouse spermatogonia (PMID: 28087628). It is involved in the regulation of many cellular processes during both prenatal development and tumorigenesis. ID4 can be detected 25-30 kDa (PMID: 34108007, PMID: 31847356).

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:

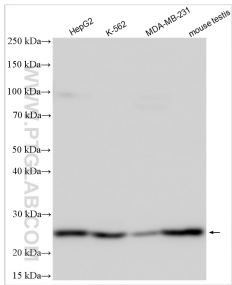
T: 4006900926

E: Proteintech-CN@ptglab.com

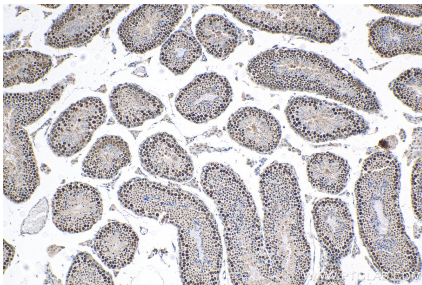
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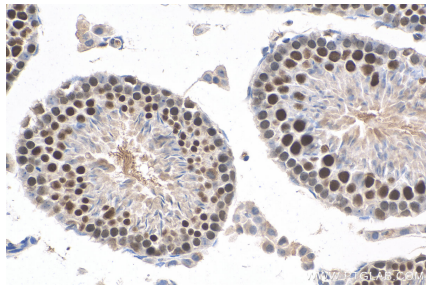
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 21803-1-AP (ID4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 21803-1-AP (ID4 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 mouse testis tissue slide using 21803-1-AP (ID4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).