

For Research Use Only

ID4 Polyclonal antibody

Catalog Number: 21803-1-AP



Basic Information

Catalog Number: 21803-1-AP	GenBank Accession Number: BC014941	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 300 µg/ml by Nanodrop;	GeneID (NCBI): 3400	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500
Source: Rabbit	Full Name: inhibitor of DNA binding 4, dominant negative helix-loop-helix protein	
Isotype: IgG	Calculated MW: 161 aa, 17 kDa	
Immunogen Catalog Number: AG16883	Observed MW: 25-30 kDa	

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

*** 20ul sizes contain 0.1% BSA

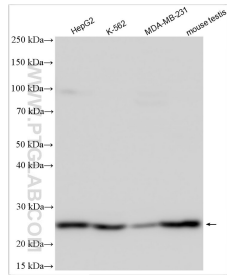
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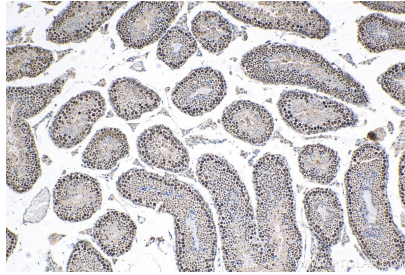
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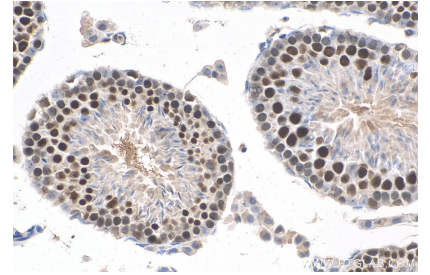
Selected Validation Data



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).