

For Research Use Only

# ID4 Polyclonal antibody

Catalog Number: 21803-1-AP



## Basic Information

<b>Catalog Number:</b> 21803-1-AP	<b>GenBank Accession Number:</b> BC014941	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 300 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3400	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P47928	
<b>Isotype:</b> IgG	<b>Full Name:</b> inhibitor of DNA binding 4, dominant negative helix-loop-helix protein	
<b>Immunogen Catalog Number:</b> AG16883	<b>Calculated MW:</b> 161 aa, 17 kDa	
	<b>Observed MW:</b> 25-30 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse, rat	<b>WB :</b> HepG2 cells, K-562 cells, MDA-MB-231 cells, mouse testis tissue
<b>Note-IHC:</b> suggested antigen retrieval with <b>TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> 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

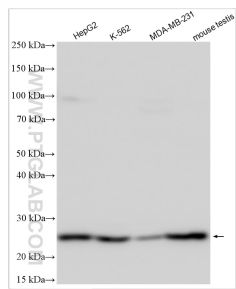
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

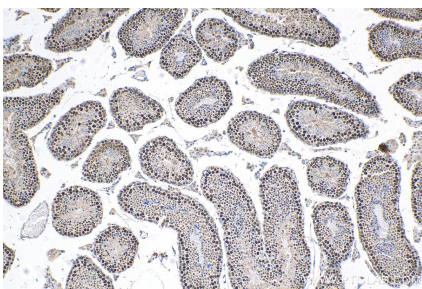
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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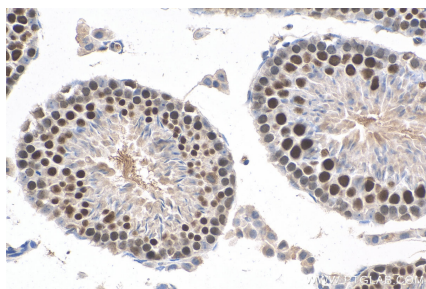
## Selected Validation Data



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).