

For Research Use Only

# HIGD1A Polyclonal antibody

Catalog Number: 21749-1-AP

Featured Product

8 Publications



## Basic Information

<b>Catalog Number:</b> 21749-1-AP	<b>GenBank Accession Number:</b> BC000601	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 220 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 25994	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> HIG1 hypoxia inducible domain family, member 1A	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 93 aa, 10 kDa	
<b>Immunogen Catalog Number:</b> AG14027	<b>Observed MW:</b> 10 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF, IP, WB	<b>WB :</b> HEK-293T cells, HeLa cells, rat brain tissue, rat kidney tissue, HepG2 cells
<b>Species Specificity:</b> human, rat	<b>IHC :</b> human testis tissue,
<b>Cited Species:</b> human	

**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

HIG1 domain family member 1A (HIGD1A) is a proposed subunit of cytochrome c oxidase (COX, complex IV), which is the terminal component of the mitochondrial respiratory chain that catalyzes the reduction of oxygen to water. May play a role in the assembly of respiratory supercomplexes (22342701). It is induced by hypoxia induction. This antibody is a rabbit polyclonal antibody raised against a full-length human HIGD1A protein.

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhenyu Xu	34787061	Bioengineered	WB
Daniella H Hock	33451405	Mol Cell Proteomics	WB
Takaharu Hayashi	25605899	Proc Natl Acad Sci U S A	WB, IF, IP

## Storage

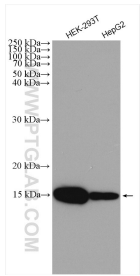
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

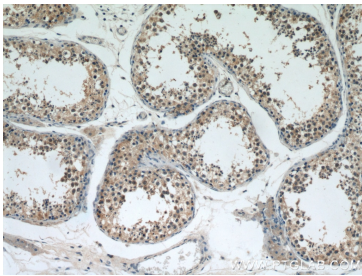
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

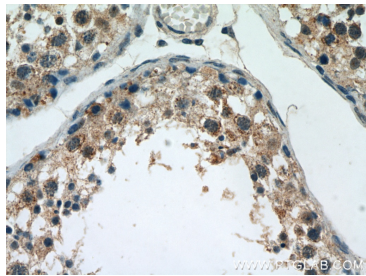
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 21749-1-AP (HIGD1A antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human testis using 21749-1-AP (HIGD1A antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human testis using 21749-1-AP (HIGD1A antibody) at dilution of 1:200 (under 40x lens).