

For Research Use Only

# HIGD2A Polyclonal antibody

Catalog Number: 21415-1-AP **2 Publications**



## Basic Information

<b>Catalog Number:</b> 21415-1-AP	<b>GenBank Accession Number:</b> BC007502	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 300 µg/ml	<b>GeneID (NCBI):</b> 192286	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IF 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9BW72	
<b>Isotype:</b> IgG	<b>Full Name:</b> HIG1 hypoxia inducible domain family, member 2A	
<b>Immunogen Catalog Number:</b> AG15892	<b>Calculated MW:</b> 106 aa, 12 kDa	
	<b>Observed MW:</b> 11 kDa, 50 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB	WB : mouse kidney tissue, IF : MCF-7 cells,
<b>Species Specificity:</b> human, mouse	
<b>Cited Species:</b> human	

## Background Information

The mammalian HIGD-family proteins include two subgroups of yeast Rcf1 homologs, HIGD1A/B/C and HIGD2A/B. HIGD1A and HIGD2A (of 10.4 and 11.5 kDa, respectively) have two hydrophilic transmembrane domains and are localized in the inner mitochondrial membrane. HIGD1A and HIGD2A expression is induced under stress conditions like hypoxia or glucose deprivation in human cervical epithelial cells and murine cerebral cortical neurons. HIGD1A may play pleiotropic roles in mitochondrial respiratory chain biogenesis. HIGD2A forms a 50 kDa regulatory module with COX4-1, COX5B, and COX6A1, which binds to newly synthesized COX3 to promote its binding to the previously assembled COX1 + COX2 module (PMID:33291261,32375044).

## Notable Publications

Author	Pubmed ID	Journal	Application
Daniella H Hock	33451405	Mol Cell Proteomics	WB
Daniella H Hock	32317297	Mol Cell Proteomics	WB

## 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:

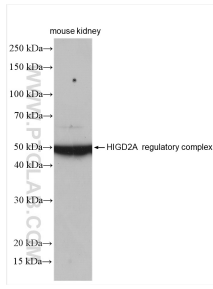
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

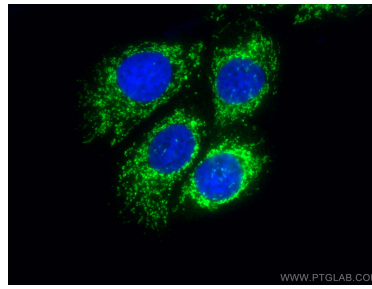
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## Selected Validation Data



mouse kidney tissue were subjected to SDS PAGE followed by western blot with 21415-1-AP (HIGD2A antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using HIGD2A antibody (21415-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).