

For Research Use Only

HIGD2A Polyclonal antibody

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



Basic Information

Catalog Number: 21415-1-AP	GenBank Accession Number: BC007502	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 300 µg/ml by Nanodrop and 300 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 192286	Recommended Dilutions: WB 1:500-1:1000 IF 1:200-1:800
Source: Rabbit	Full Name: HIG1 hypoxia inducible domain family, member 2A	
Isotype: IgG	Calculated MW: 106 aa, 12 kDa	
Immunogen Catalog Number: AG15892	Observed MW: 11 kDa, 50 kDa	

Applications

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

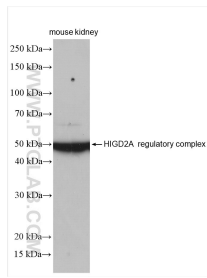
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

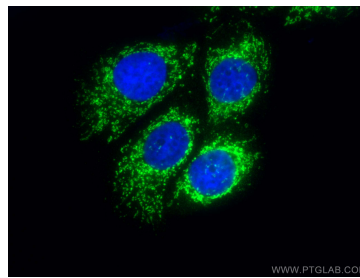
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



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).