

For Research Use Only

# HIGD1A Monoclonal antibody, PBS Only (Capture)

Catalog Number: 68231-1-PBS



## Basic Information

<b>Catalog Number:</b> 68231-1-PBS	<b>GenBank Accession Number:</b> BC000601	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 25994	<b>CloneNo.:</b> 3A8E2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9Y241	
<b>Isotype:</b> IgG2b	<b>Full Name:</b> HIG1 hypoxia inducible domain family, member 1A	
<b>Immunogen Catalog Number:</b> AG14027	<b>Calculated MW:</b> 93 aa, 10 kDa	
	<b>Observed MW:</b> 10 kDa	

## Applications

**Tested Applications:**  
WB, IF/ICC, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human

## Product Information

68231-1-PBS targets HIGD1A as part of a matched antibody pair:

MP50454-2: 68231-1-PBS capture and 68231-4-PBS detection (validated in Cytometric bead array)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## 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 (PMID:22342701). It is induced by hypoxia induction.

## Storage

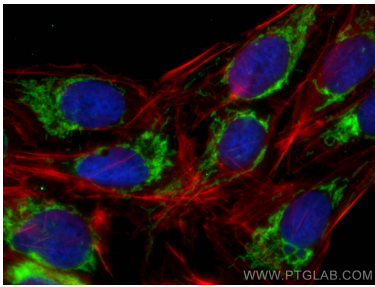
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

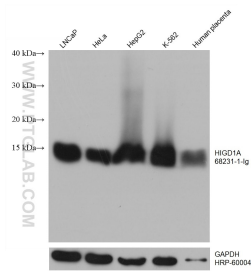
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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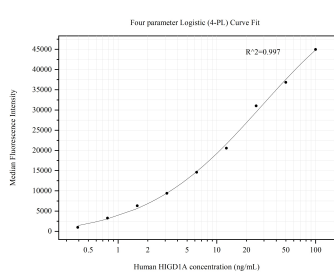
Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using HIGD1A antibody (68231-1-Ig, Clone: 3A8E2 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red). This data was developed using the same antibody clone with 68231-1-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 68231-1-Ig (HIGD1A antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control. This data was developed using the same antibody clone with 68231-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP50454-2, HIGD1A Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 68231-1-PBS. Detection antibody: 68231-4-PBS. Standard:Ag14027. Range: 0.391-100 ng/mL