

HIGD1A Monoclonal antibody

Catalog Number: 68231-1-Ig

Basic Information

Catalog Number:

68231-1-Ig

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG14027

GenBank Accession Number:

BC000601

GeneID (NCBI):

25994

UNIPROT ID:

Q9Y241

Full Name:

HIG1 hypoxia inducible domain family, member 1A

Calculated MW:

93 aa, 10 kDa

Observed MW:

10 kDa

Purification Method:

Protein A purification

CloneNo.:

3A8E2

Recommended Dilutions:

WB 1:1000-1:6000

IF/ICC 1:200-1:800

Applications

Tested Applications:

IF/ICC, WB, ELISA

Species Specificity:

Human

Positive Controls:

WB : LNCaP cells, HeLa cells, HepG2 cells, K-562 cells, human placenta tissue

IF/ICC : U2OS cells,

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:

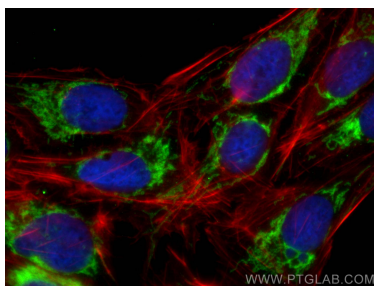
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

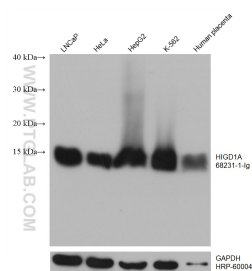
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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).



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.