For Research Use Only

IDH1 Monoclonal antibody

Catalog Number:66197-1-lg 5 Publications



Basic Information

Catalog Number: 66197-1-lg Size:

1800 ug/ml Source: Mouse Isotype: lgG1

Immunogen Catalog Number:

AG19293

GenBank Accession Number: BC012846

GeneID (NCBI): 3417

Full Name: isocitrate dehydrogenase 1 (NADP+), IF/ICC 1:200-1:800

soluble

UNIPROT ID:

075874

Calculated MW: 414 aa, 47 kDa

Observed MW: 46 kDa

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

Cited Applications:

WB, IP

Species Specificity:

human **Cited Species:**

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Purification Method:

Protein A purification

CloneNo.: 2A6A2

Recommended Dilutions:

WB 1:1000-1:4000 IHC 1:2000-1:8000

Positive Controls:

WB: HepG2 cells, HeLa cells, DU 145 cells, MCF-7 cells

IHC: human liver cancer tissue, human gliomas tissue

IF/ICC: HepG2 cells,

Background Information

IDH1, also named as PICD and IDP, belongs to the isocitrate and isopropylmalate dehydrogenases family. It is a common feature of a major subset of primary human brain cancers. It can form a homodimer(PMID:15173171).IDH1 mutation is always heterozygotic and IDH1 functions as a dimer, theoretically there will be 25% each wild type and mutant homo-dimers and 50% hetero-dimers present in the tumor cells(PMID:21079649).

Notable Publications

Author	Pubmed ID	Journal	Application
Teresa W-M Fan	36150727	J Immunol	
Florent Laferrière	30559480	Nat Neurosci	
Sikai Wang	38280407	Biochim Biophys Acta Mol Cell Res	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.

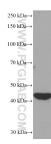
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

T: 4006900926 E: Proteintech-CN@ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

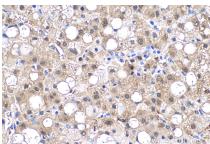
Selected Validation Data



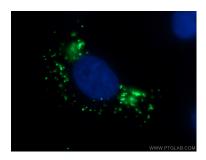
HepG2 cells were subjected to SDS PAGE followed by western blot with 66197-1-lg (IDH1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



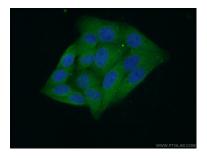
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 66197-1-lg (IDH1 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



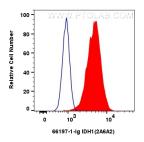
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 66197-1-lg (IDH1 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 66197-1-lg (IDH1 antibody) at dilution of 1:400 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (10% Formaldehyde) fixed HepG2 cells using 66197-1-Ig(IDH1 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1x10^6 HepG2 cells were intracellularly stained with 0.25 ug IDH1 Monoclonal antibody (66197-1-1g, Clone:2A6A2) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1) (red), or 0.25 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-1g, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).