

For Research Use Only

IDH1 Monoclonal antibody

Catalog Number: 66197-1-Ig 5 Publications



Basic Information

Catalog Number: 66197-1-Ig	GenBank Accession Number: BC012846	Purification Method: Protein G purification
Size: 150ul , Concentration: 1800 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 3417	CloneNo.: 2A6A2
Source: Mouse	UNIPROT ID: O75874	Recommended Dilutions: WB: 1:1000-1:4000 IHC: 1:2000-1:8000 IF/ICC: 1:200-1:800 FC (Intra): 0.25 ug per 10 ⁶ cells in a 100 µl suspension
Isotype: IgG1	Full Name: isocitrate dehydrogenase 1 (NADP+), soluble	
Immunogen Catalog Number: AG19293	Calculated MW: 414 aa, 47 kDa	
	Observed MW: 46 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA	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, FC (Intra) : HepG2 cells,
Cited Applications: WB, IP	
Species Specificity: human	
Cited Species: human	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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

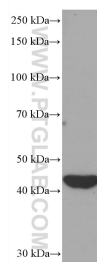
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

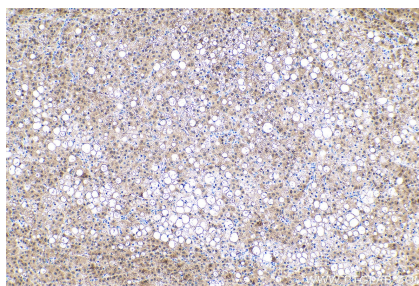
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

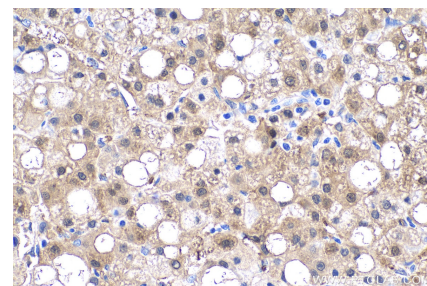
Selected Validation Data



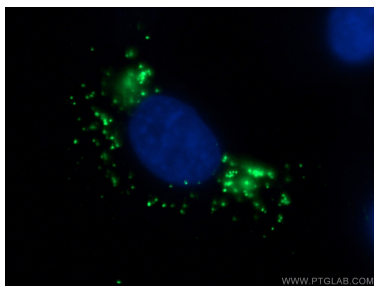
HepG2 cells were subjected to SDS PAGE followed by western blot with 66197-1-Ig (IDH1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



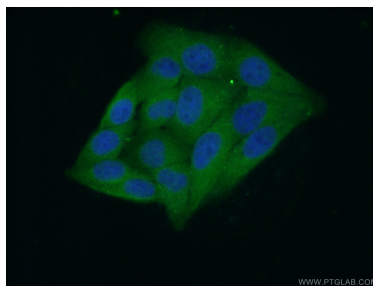
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66197-1-Ig (IDH1 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



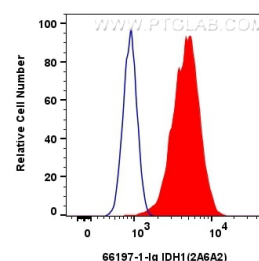
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66197-1-Ig (IDH1 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 66197-1-Ig (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).



1x10⁶ HepG2 cells were intracellularly stained with 0.25 ug IDH1 Monoclonal antibody (66197-1-Ig, 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-Ig, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).