

For Research Use Only

# IDH1 Monoclonal antibody

Catalog Number: 66197-1-Ig **3 Publications**



## Basic Information

<b>Catalog Number:</b> 66197-1-Ig	<b>GenBank Accession Number:</b> BC012846	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 1800 µg/ml	<b>GeneID (NCBI):</b> 3417	<b>CloneNo.:</b> 2A6A2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> O75874	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:20-1:200 IF 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> isocitrate dehydrogenase 1 (NADP+), soluble	
<b>Immunogen Catalog Number:</b> AG19293	<b>Calculated MW:</b> 414 aa, 47 kDa	
	<b>Observed MW:</b> 46 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, IHC, WB, ELISA	<b>Positive Controls:</b> WB : HepG2 cells, HeLa cells, DU 145 cells, MCF-7 cells IHC : human pancreas tissue, human gliomas tissue IF : HepG2 cells,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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	
Zehe Ge	37950872	Cell Rep	WB

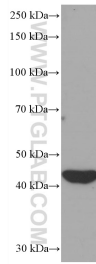
## Storage

**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

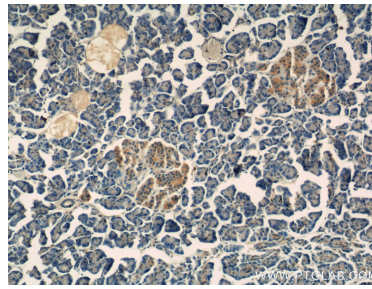
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

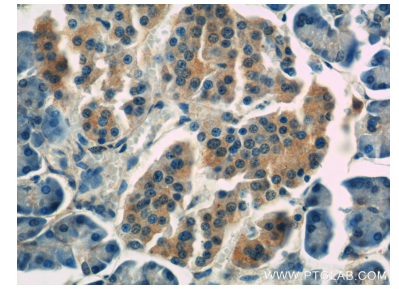
## Selected Validation Data



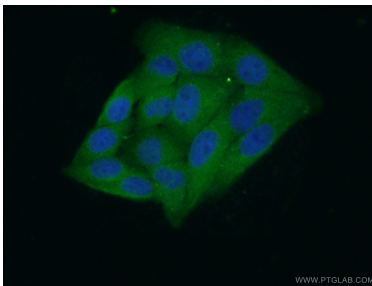
HepG2 cells were subjected to SDS PAGE followed by western blot with 66197-1-Ig (IDH1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 66197-1-Ig (IDH1 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 66197-1-Ig (IDH1 Antibody) at dilution of 1:200 (under 40x lens).



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).