

IDH1 Polyclonal Antibody

Catalog number: 12332-1-AP

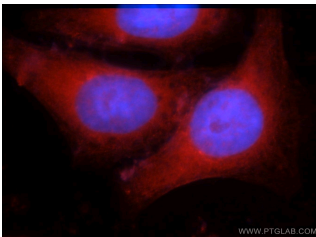
Size: 25 µg/150 µl

Source: Rabbit

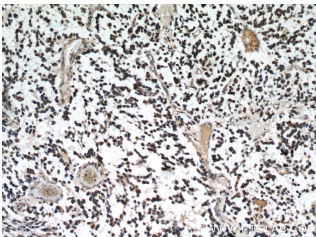
Isotype: IgG

Synonyms:

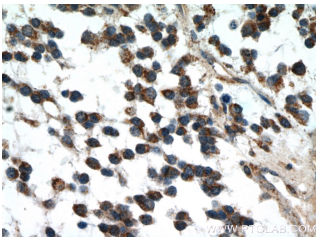
IDH1; IDCD, IDH, IDH1, IDP, IDPC, NADP(+) specific IDH, Oxalosuccinate decarboxylase, PICD



Immunofluorescent analysis of HepG2 cells using 12332-1-AP (IDH1 Antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG



Immunohistochemical of paraffin-embedded human gliomas using 12332-1-AP(IDH1 antibody) at dilution of 1:50 (under 10x lens)



Immunohistochemical of paraffin-embedded human gliomas using 12332-1-AP(IDH1 antibody) at dilution of 1:50 (under 40x lens)

Background

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).

Applications

Tested applications:	ELISA, IP, IF, WB, IHC, FC
Cited applications:	IHC, WB
Species specificity:	Human,Mouse,Rat; other species not tested.
Cited species:	Human
Calculated IDH1 MW:	414aa,47 kDa
Observed IDH1 MW:	47kd
Positive WB detected in	Mouse liver tissue, DU 145 cells, HEK-293 cells, HeLa cells, HepG2 cells, MCF7 cells, mouse pancreas tissue, mouse small intestine tissue, NIH/3T3 cells, rat liver tissue
Positive IP detected in	MCF-7 cells
Positive IHC detected in	Human gliomas tissue, human kidney tissue, human liver cancer tissue, human lung tissue, human placenta tissue, human skin tissue
Positive IF detected in	HepG2 cells
Positive FC detected in	HeLa cells
Recommended dilution:	WB: 1:1000-1:10000 IP: 1:200-1:2000 IHC: 1:20-1:200 IF: 1:10-1:100 FC: N/A

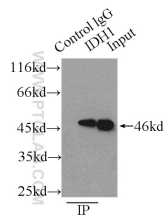
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

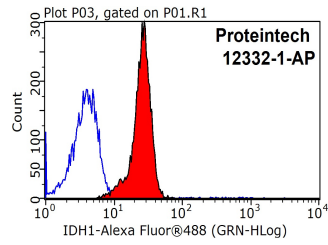
Immunogen:	Ag2986
GenBank accession number:	BC012846
Gene ID (NCBI):	3417
Full name:	Isocitrate dehydrogenase 1 (NADP+), soluble

Product information

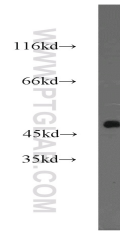
Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



IP Result of anti-IDH1
(IP:12332-1-AP, 3ug;
Detection:12332-1-AP 1:600)
with MCF-7 cells lysate
2500ug.



1X10⁶ HeLa cells were
stained with 0.2ug IDH1
antibody (12332-1-AP, red)
and control antibody (blue).
Fixed with 90% MeOH
blocked with 3% BSA (30
min). Alexa Fluor 488-
conjugated AffiniPure Goat
Anti-Rabbit IgG(H+L) with
dilution 1:1500.



mouse liver tissue were
subjected to SDS PAGE
followed by western blot with
12332-1-AP(IDH1 antibody) at
dilution of 1:2000