

For Research Use Only

IDH1 Polyclonal antibody

Catalog Number: 23309-1-AP **3 Publications**



Basic Information

Catalog Number: 23309-1-AP	GenBank Accession Number: BC012846	Purification Method: Antigen affinity purification
Size: 750 µg/ml	GeneID (NCBI): 3417	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:2000-1:8000
Source: Rabbit	UNIPROT ID: O75874	
Isotype: IgG	Full Name: isocitrate dehydrogenase 1 (NADP+), soluble	
Immunogen Catalog Number: AG19749	Calculated MW: 414 aa, 47 kDa	
	Observed MW: 46 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : HepG2 cells, mouse liver tissue IHC : mouse kidney tissue,
Cited Applications: WB	
Species Specificity: human, mouse, rat	
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. Its subunit structure is 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). This antibody is specific to IDH1.

Notable Publications

Author	Pubmed ID	Journal	Application
Keisuke Miyake	30506321	Med Oncol	WB
Haiying Zhang	29459780	Nat Cell Biol	WB
Guiomar Rodríguez-Periñán	36978829	Antioxidants (Basel)	WB

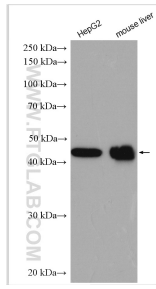
Storage

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

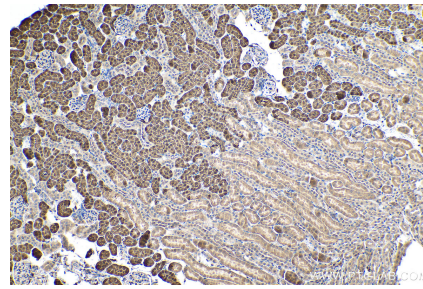
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 23309-1-AP (IDH1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 23309-1-AP (IDH1 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).