

For Research Use Only

IDH3B Monoclonal antibody

Catalog Number: 68199-1-Ig



Basic Information

Catalog Number: 68199-1-Ig	GenBank Accession Number: BC001960	Purification Method: Protein G purification
Size: 150ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 3420	CloneNo.: 2D11A9
Source: Mouse	UNIPROT ID: O43837	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG1	Full Name: isocitrate dehydrogenase 3 (NAD+) beta	
Immunogen Catalog Number: AG8693	Calculated MW: 42 kDa	
	Observed MW: 39-42 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : LNCaP cells, Jurkat cells, pig brain tissue, rabbit brain tissue, rat brain tissue, mouse brain tissue, pig heart tissue, rabbit heart tissue, rat heart tissue
Species Specificity: Human, Mouse, Rat, Rabbit, Pig	

Background Information

Isocitrate dehydrogenase 3 (IDH3) is a key enzyme in the mitochondrial tricarboxylic acid (TCA) cycle, which catalyzes the decarboxylation of isocitrate into α -ketoglutarate and concurrently converts NAD⁺ into NADH. IDH3B (Isocitrate dehydrogenase 3 (NAD⁺) beta), also named as RP46, is the beta subunit of IDH3 and controls its substrate levels in the TCA cycle, and it is required for sperm mitochondrial metabolism and spermiogenesis (PMID: 18806796, PMID: 35985423). In addition, IDH3B expression increased PFKFB3 protein levels and enhanced glucose uptake, and high expression of IDH3B correlated with poor survival in patients with ESCC, suggesting a potential application of IDH3B in prognosis (PMID: 31053633).

Storage

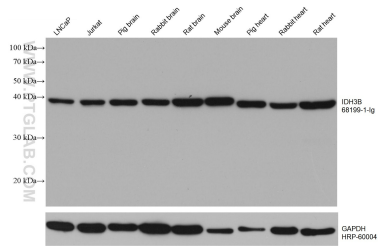
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 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)
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W: ptglab.com

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

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68199-1-Ig (IDH3B antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.