

IDH3B Monoclonal antibody, PBS Only

Catalog Number: 68199-1-PBS

Basic Information

Catalog Number: 68199-1-PBS	GenBank Accession Number: BC001960	Purification Method: Protein G purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 3420	CloneNo.: 2D11A9
Source: Mouse	UNIPROT ID: O43837	
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, Indirect ELISA

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

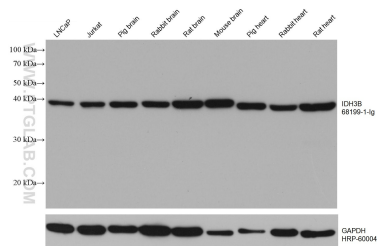
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

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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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. This data was developed using the same antibody clone with 68199-1-PBS in a different storage buffer formulation.