For Research Use Only

IDH3B Monoclonal antibody

Catalog Number:68199-1-Ig



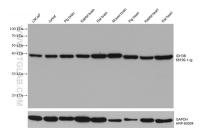
Basic Information	Catalog Number: 68199-1-lg	GenBank Accession Number: BC001960	Purification Method: Protein G purification
	Size: 1000 µg/ml	GenelD (NCBI): 3420	CloneNo.: 2D11A9
	Source: Mouse	UNIPROT ID: O 43837	Recommended Dilutions: WB 1:5000-1:50000
	lsotype: lgG1 Immunogen Catalog Number:	Full Name: isocitrate dehydrogenase 3 (NAD+) beta	
	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 Informatio	Isocitrate dehydrogenase 3 (IDH3) is a key enzyme in the mitochondrial tricarboxylic acid (TCA) cycle, which catalyzes the decarboxylation of isocitrate into a -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, DH3B 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 Storage Buffer: PBS with 0.02% sodium azide and Aliquoting is unnecessary for -20°	50% glycerol pH 7.3.	

 For technical support and original validation data for this product please contact:

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68199-1-1g (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.