For Research Use Only

IDH3B Monoclonal antibody, PBS Only

Catalog Number:68199-1-PBS

Basic Information

Catalog Number:
68199-1-PBS

Size:
1 mg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG8693

GenBank Accession Number:
BC001960

GeneID (NCBI):
3420

UNIPROT ID:
O43837

Full Name:
isocitrate dehydrogenase 3 (NAD+) beta

Calculated MW:
42 kDa

Observed MW:
39-42 kDa

Purification Method:
Protein G purification

CloneNo.:
2D11A9

Applications

Tested Applications:
WB,Indirect ELISA

Species Specificity:
Human, Mouse, Rat, Rabbit, Pig

Background Information

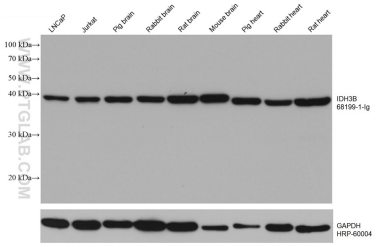
Isocitrate dehydrogenase 3 (IDH3) is a key enzyme in the mitochondrial tricarboxylic acid (TCA) cycle, which catalyzes the decarboxylation of isocitrate into α-ketoglutarate and concurrently converts NAD+ into NADH. IDH3B(Isocitrate dehydrogenase 3 (NAD+) beta), also named as RP46, is the beta subunit 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, 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 -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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.