

Nur für Forschungszwecke

# IDH3B Monoklonaler Antikörper

Katalog-Nr.:68199-1-Ig



## Allgemeine Informationen

<b>Katalog-Nr.:</b> 68199-1-Ig	<b>GenBank-Zugangsnummer:</b> BC001960	<b>Reinigungsmethode:</b> Protein-G-Reinigung
<b>Größe:</b> 150ul , Konzentration: 1000 µg/ml von3420 Nanodrop;	<b>GeneID (NCBI):</b> 3420	<b>CloneNo.:</b> 2D11A9
<b>Wirt:</b> Maus	<b>Vollständiger Name:</b> isocitrate dehydrogenase 3 (NAD+) beta	<b>Empfohlene Verdünnungen:</b> WB 1:5000-1:50000
<b>Isotyp:</b> IgG1	<b>Berechnete Masse:</b> 42 kDa	
<b>Immunogen Katalognummer:</b> AG8693	<b>Beobachtete Masse:</b> 39-42 kDa	

## Anwendungen

### Geprüfte Anwendungen:

WB, ELISA

### Getestete Reaktivität:

Hausschwein, Human, Kaninchen, Maus, Ratte

### Positivkontrollen:

WB : LNCaP-Zellen, Hausschwein-Herzgewebe, Hausschwein-Hirngewebe, Jurkat-Zellen, Kaninchenherzgewebe, Kaninchenhirngewebe, Maushirngewebe, Rattenherzgewebe, Rattenhirngewebe

## Hintergrundinformationen

Isocitrate dehydrogenase 3 (IDH3) is a key enzyme in the mitochondrial tricarboxylic acid (TCA) cycle, which catalyzes the decarboxylation of isocitrate into  $\alpha$ -ketoglutarate and concurrently converts NAD<sup>+</sup> into NADH. IDH3B (Isocitrate dehydrogenase 3 (NAD<sup>+</sup>) 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).

## Lagerung

### Lagerungsbedingungen:

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

### Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

**\*\*\* 20ul-Größen enthalten 0.1% BSA**

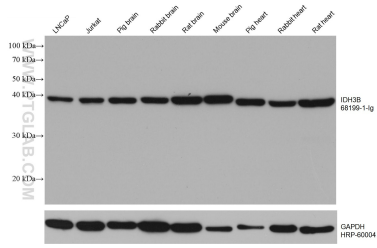
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## Ausgewählte Validierungsdaten



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.