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## **IDH2 (N) Antibody, Rabbit Polyclonal**

**Cat#:** R0959-1

**Quantity:** 100 ul

**Predicted M.W.:** 51 kDa

**Lot#:** Refer to vial

**Application:** WB

**Uniprot ID:** P48735

### **Background:**

Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. These enzymes belong to two distinct subclasses, one utilizes NAD(+) as the electron acceptor and the other NADP(+). Five isocitrate dehydrogenases have been reported: three NAD(+)-dependent which localize to the mitochondrial matrix; and two NADP(+)-dependent, one of which is mitochondrial and the other predominantly cytosolic. Each NADP(+)-dependent isozyme is a homodimer. IDH2 is the NADP(+)-dependent isocitrate dehydrogenase found in the mitochondria, which plays a role in intermediary metabolism and energy production. IDH2 may tightly associate or interact with the pyruvate dehydrogenase complex. Defects in IDH2 are the cause of D-2-hydroxyglutaric aciduria type 2 (D2HGA2), a neurometabolic disorder causing developmental delay, epilepsy, hypotonia, and dysmorphic features.

### **Other Names:**

Isocitrate dehydrogenase [NADP] mitochondrial, IDH, ICD-M, IDP, NADP(+)-specific ICDH, Oxalosuccinate decarboxylase

### **Source and Purity:**

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the N-terminal region of human IDH2. Antibodies were purified by affinity purification using immunogen.

### **Storage Buffer and Condition:**

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN<sub>3</sub>. Store at -20 °C. Stable for 6 months from date of receipt.

### **Species Specificity:**

Human, Mouse

### **Tested Applications:**

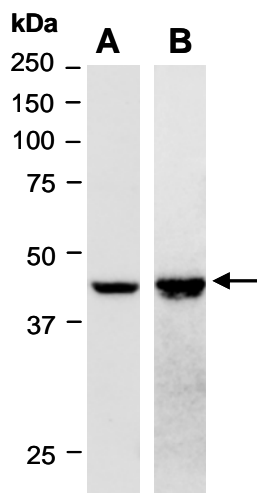
WB: 1:1,000-1:5,000 (detect endogenous protein\*)

\*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

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**For research use only. Not for therapeutic or diagnostic purposes.**  
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**Product Data:**



**Fig 1.** Western blot of total cell extracts from (A) mouse liver, (B) mouse heart, using Ab (R0959-1) at RT for 2 h.