

Datasheet for 600-401-BT0**IDH2 Antibody****Overview**

Description:	Anti-IDH2 (RABBIT) Antibody - 600-401-BT0
Item No.:	600-401-BT0
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. These enzymes belong to two distinct subclasses, one of which utilizes NAD(+) as the electron acceptor and the other NADP(+). Two NADP(+)-dependent isocitrate dehydrogenases have been found as homodimer: IDH1 is predominantly cytosolic and peroxisomal and IDH2 is mitochondrial. Both IDH1 and IDH2 play significant roles in the tricarboxylic acid cycle (TCA), and defects in IDH1 as well as IDH2 have been implicated in the development of glioma as well as other malignancies.
Synonyms:	IDH2 Antibody, IDH, IDP, IDHM, IDPM, ICD-M, D2HGA2, mNADP-IDHICD-M, IDH
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	IDH2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-IDH2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide near the N-terminus of human IDH2.

Purity/Specificity: Anti-IDH2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with IDH2 from other sources has not been determined.

Relevant Links:

- [UniProtKB - P48735](#)
- [GeneID - 3418](#)
- [NCBI - NP_002159](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-IDH2 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 51 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000 - 1:20,000

IF: 20 µg/mL

IHC: 5 µg/mL

WB: 1-2 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

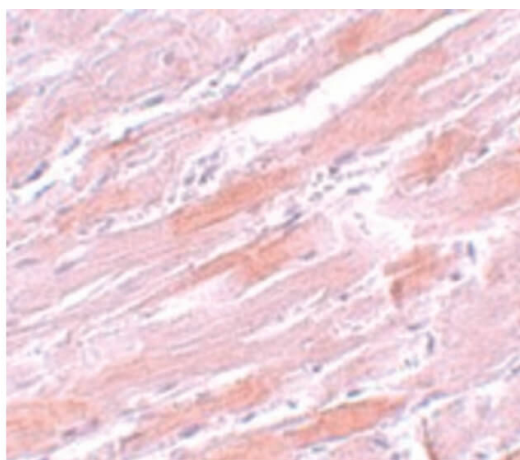
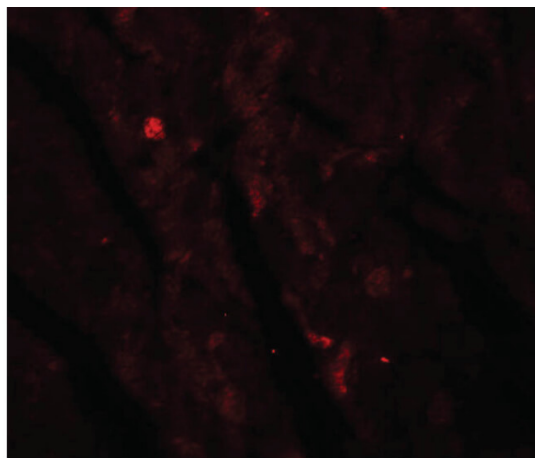
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy

Immunofluorescence Microscopy of IDH2 antibody. Tissue: Mouse heart tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: IDH2 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: IDH2 is localized in the mitochondrion. Staining: IDH2 as red fluorescent signal.

Western Blot

Western Blot of IDH2 antibody. Lane 1: Human heart tissue lysate with IDH2 antibody at 1 µg/mL. Lane 2: Human heart tissue lysate with IDH2 antibody at 2 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 51 kDa, 51 kDa for IDH2. Other band(s): IDH2 splice variants and isoforms.

Immunohistochemistry

Immunohistochemistry of IDH2 antibody. Tissue: Mouse heart tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: IDH2 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: IDH2 is localized in the mitochondrion. Staining: IDH2 as precipitated pink signal with blue counterstain.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.