Datasheet for ABIN3043856

anti-IDH2 antibody (C-Term)

7 Images

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Overview

Quantity:	100 µg
Target:	IDH2
Binding Specificity:	AA 413-447, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IDH2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Isocitrate dehydrogenase [NADP], mitochondrial(IDH2) detection. Tested with WB, IHC-P in Human, Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human IDH2 (413-447aa KDLAGCIHGLSNVKLNEHFLNTTDFLDTIKSNLDR), identical to the related mouse and rat sequences.
Sequence:	KDLAGCIHGL SNVKLNEHFL NTTDFLDTIK SNLDR
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Isocitrate dehydrogenase [NADP], mitochondrial(IDH2) detection. Tested with WB, IHC-P in Human, Mouse,Rat. Gene Name: isocitrate dehydrogenase 2 (NADP+), mitochondrial

Product Details

	Protein Name: Isocitrate dehydrogenase [NADP], mitochondrial
Purification:	Immunogen affinity purified.

Target Details

Target:	IDH2
Alternative Name:	IDH2 (IDH2 Products)
Background:	Isocitrate dehydrogenase [NADP], mitochondrial is an enzyme that in humans is encoded by the IDH2 gene. 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(+). Five isocitrate dehydrogenases have been reported: three NAD(+)-dependent isocitrate dehydrogenases, which localize to the mitochondrial matrix, and two NADP(+)-dependent isocitrate dehydrogenases, one of which is mitochondrial and the other predominantly cytosolic. Each NADP(+)-dependent isozyme is a homodimer. The protein encoded by this gene is the NADP(+)-dependent isocitrate dehydrogenase found in the mitochondria. It plays a role in intermediary metabolism and energy production. This protein may tightly associate or interact with the pyruvate dehydrogenase complex. Alternative splicing results in multiple transcript variants. Synonyms: D2HGA2 antibody|ICD-M antibody|IDH antibody|IDH2 antibody|IDHM antibody|IDHP_HUMAN antibody|IDP antibody|IDPM antibody|Isocitrate dehydrogenase [NADP], mitochondrial antibody|Isocitrate dehydrogenase 2 (NADP+), mitochondrial antibody|mNADP-IDH antibody|NADP(+)-specific ICDH antibody|Oxalosuccinate decarboxylase antibody
Gene ID:	3418
UniProt:	P48735
Pathways:	Warburg Effect

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

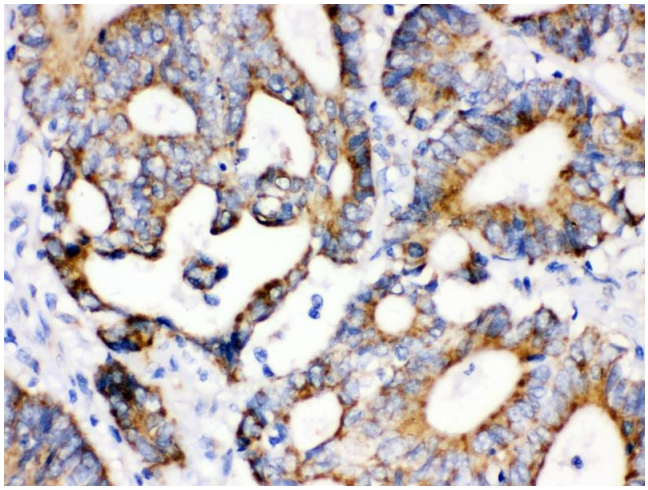
Application Details

Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

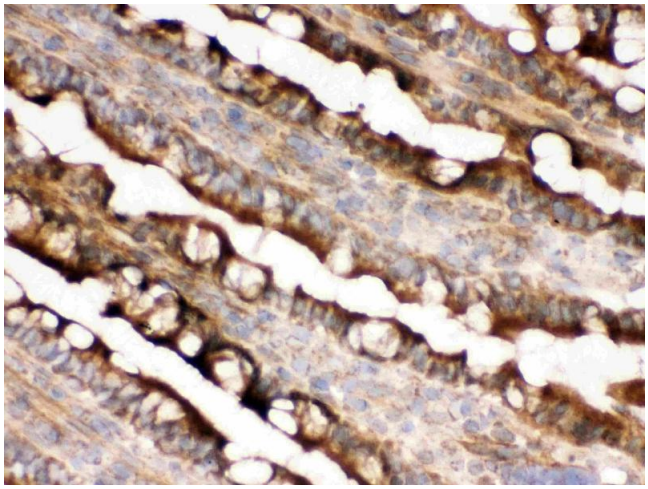
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Images



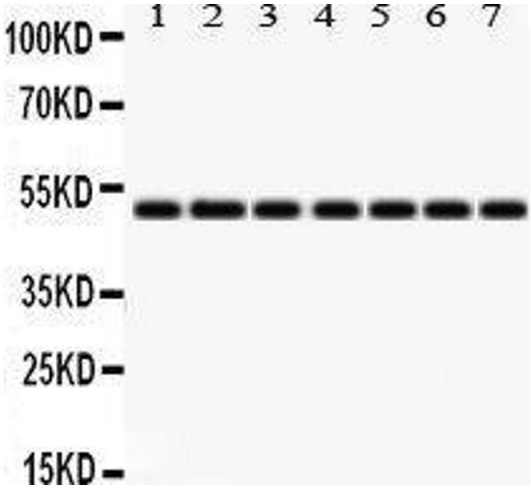
Immunohistochemistry

Image 1. Anti- IDH2 Picoband antibody, IHC(P) IHC(P): Human Intestinal Cancer Tissue



Immunohistochemistry

Image 2. IHC analysis of IDH2 using anti-IDH2 antibody . IDH2 was detected in frozen section of rat small intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-IDH2 Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.



Western Blotting

Image 3.

Please check the product details page for more images. Overall 7 images are available for ABIN3043856.