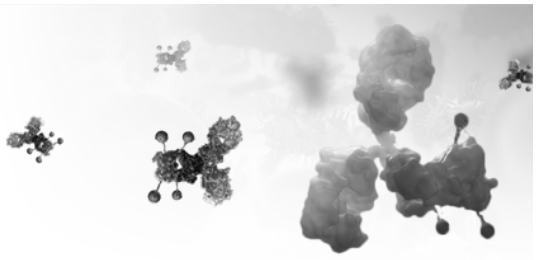

Rabbit Anti-Human IDH2 Polyclonal Antibody (CABT-L2020)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to Isocitrate Dehydrogenase 2, mitochondrial (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against IDH2. It has been selected for its ability to recognize IDH2 in immunohistochemical staining and western blotting.
Target	IDH2
Immunogen	Recombinant fragment corresponding to human IDH2 (Ala40~Gln452)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Pig
Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	200 µg
Buffer	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
Preservative	0.05% Proclin-300

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Storage	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
Ship	4°C with ice bags

BACKGROUND

Introduction	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. [provided by RefSeq, Feb 2014]
Keywords	IDH;IDP;ICD-M;IDHM;mNADP-IDH;Isocitrate dehydrogenase [NADP], mitochondrial;Oxalosuccinate decarboxylase

GENE INFORMATION

Gene Name	IDH2 isocitrate dehydrogenase 2 (NADP+), mitochondrial [Homo sapiens (human)]
Official Symbol	IDH2
Synonyms	IDH2; isocitrate dehydrogenase 2 (NADP+), mitochondrial; IDH; IDP; IDHM; IDPM; ICD-M; D2HGA2; mNADP-IDH; isocitrate dehydrogenase [NADP], mitochondrial; NADP(+)-specific ICDH; oxalosuccinate decarboxylase;
Entrez Gene ID	3418
Protein Refseq	NP_001276839
UniProt ID	P48735
Chromosome Location	15q26.1
Pathway	2-Oxocarboxylic acid metabolism; Biosynthesis of amino acids; Carbon metabolism; Citrate cycle (TCA cycle); Citrate cycle (TCA cycle, Krebs cycle); Citrate cycle, first carbon oxidation, oxaloacetate => 2-oxoglutarate; Citric acid cycle (TCA cycle); Glutathione metabolism;
Function	NAD binding; isocitrate dehydrogenase (NADP+) activity; magnesium ion binding;

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