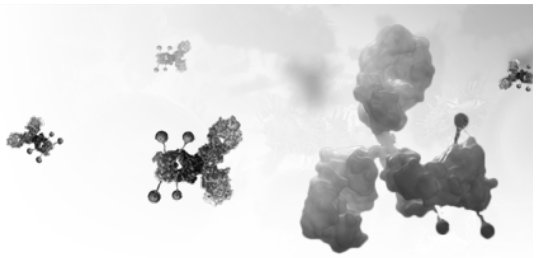

Anti-IDH2 (aa 354-451) polyclonal antibody (DPAB-DC1663)

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

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	IDH2 (NP_002159, 354 a.a. ~ 451 a.a) partial recombinant protein with GST tag. The sequence is HYREHQKGRPTSTNPIASIFAWTRGLEHRGKLDGNQDLIRFAQMLEKVCVETVESGAMTK DLAGCIHGLSNVKLNEHFLNTTDFLDTIKSNLDRALGR
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Tissue lysate), WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None

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Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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)
Function	NAD binding; isocitrate dehydrogenase (NADP+) activity; magnesium ion binding;

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