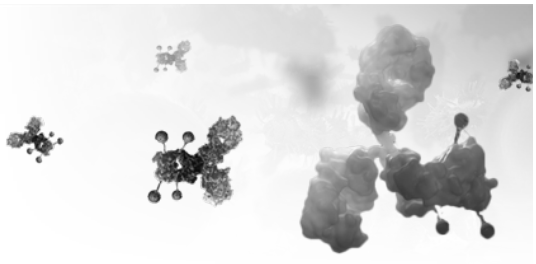

IDH2 blocking peptide (CDBP5542)

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. [provided by RefSeq, Feb 2014]
Conjugate	Unconjugated
Applications	Used as a blocking peptide in immunoblotting applications.
Format	Liquid
Concentration	200 µg/mL
Size	0.05 mg
Preservative	None
Storage	-20°C

GENE INFORMATION

Gene Name	IDH2 isocitrate dehydrogenase 2 (NADP+), mitochondrial [Homo sapiens (human)]
Official Symbol	IDH2

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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
mRNA Refseq	NM_001289910
Protein Refseq	NP_001276839
UniProt ID	P48735
Pathway	2-Oxocarboxylic acid metabolism; Biosynthesis of amino acids; Carbon metabolism; Citrate cycle (TCA cycle); Citrate cycle (TCA cycle; Citrate cycle; Citric acid cycle (TCA cycle); Glutathione metabolism
Function	NAD binding; isocitrate dehydrogenase (NADP+) activity; isocitrate dehydrogenase (NADP+) activity; magnesium ion binding

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