Datasheet for ABIN5542624

anti-IDH1 antibody (AA 156-298)

5 Images

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Overview

Quantity:	0.1 mg
Target:	IDH1
Binding Specificity:	AA 156-298
Reactivity:	Human, Mouse, Monkey
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This IDH1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Immunogen:	Purified recombinant fragment of human IDH1 (AA: 156-298) expressed in E. coli.
Clone:	4A4A8
Isotype:	IgG1
Purification:	purified

Target Details

Target:	IDH1
Alternative Name:	IDH1 (IDH1 Products)
Background:	Description: Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-

Target Details

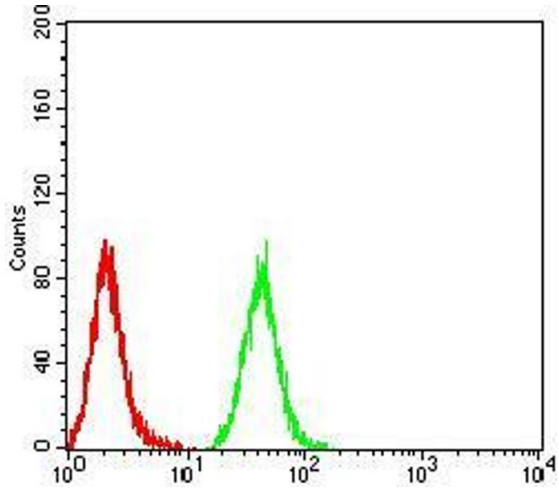
	oxoglutarate. These enzymes belong to two distinct subclasses, one of which utilizes NAD(+) as the electron acceptor and the other NADP(+). Five isocitrate dehydrogenases have been reported: three NAD(+)-dependent isocitrate dehydrogenases, which localize to the mitochondrial matrix, and two NADP(+)-dependent 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 cytoplasm and peroxisomes. It contains the PTS-1 peroxisomal targeting signal sequence. The presence of this enzyme in peroxisomes suggests roles in the regeneration of NADPH for intraperoxisomal reductions, such as the conversion of 2, 4-dienoyl-CoAs to 3-enoyl-CoAs, as well as in peroxisomal reactions that consume 2-oxoglutarate, namely the alpha-hydroxylation of phytanic acid. The cytoplasmic enzyme serves a significant role in cytoplasmic NADPH production. Alternatively spliced transcript variants encoding the same protein have been found for this gene., Aliases: IDH, IDP, IDCD, IDPC, PICD, HEL-216, HEL-S-26
Molecular Weight:	46.7 kDa
Gene ID:	3417
HGNC:	10393
Pathways:	Warburg Effect

Application Details

Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: , ICC: , FCM: 1:200 - 1:400
Restrictions:	For Research Use only

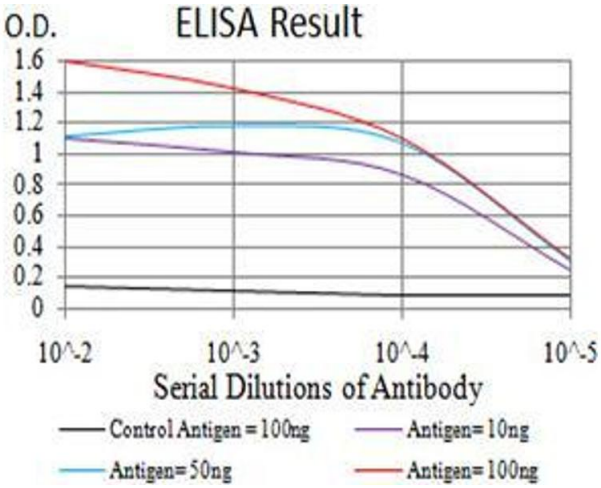
Handling

Format:	Liquid
Buffer:	Purified antibody in PBS with 0.05 % 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.
Storage:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage



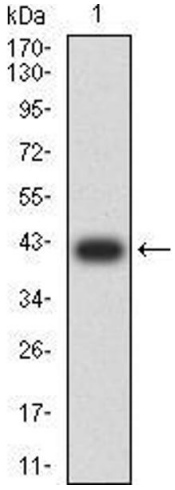
Flow Cytometry

Image 1. Flow cytometric analysis of Hela cells using IDH1 mouse mAb (green) and negative control (red).



ELISA

Image 2. Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



Western Blotting

Image 3. Western blot analysis using IDH1 mAb against human IDH1 (AA: 156-298) recombinant protein. (Expected MW is 41.8 kDa)

Please check the product details page for more images. Overall 5 images are available for ABIN5542624.