Datasheet for ABIN7268027

anti-IDH1 antibody

7 Images

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Overview

Quantity:	100 µL
Target:	IDH1
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This IDH1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP)

Product Details

Purpose:	IDH1 Rabbit mAb
Immunogen:	A synthesized peptide derived from human IDH1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	IDH1
Alternative Name:	IDH1 (IDH1 Products)
Background:	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. [provided by RefSeq, Sep 2013],HEL-216, HEL-S-26, IDCD, IDH, IDP, IDPC, PICD,Cancer,Endocrine & Metabolism,Epigenetics & Nuclear Signaling,Lipid Metabolism,Signal Transduction,IDH1
Molecular Weight:	45kDa
Gene ID:	3417
UniProt:	O75874
Pathways:	Warburg Effect

Application Details

Application Notes:	WB,1:500 - 1:2000,IP,1:50 - 1:200
Restrictions:	For Research Use only

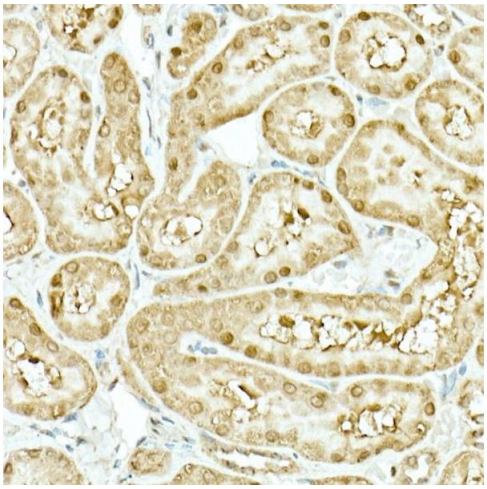
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.
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:	-20 °C

Handling

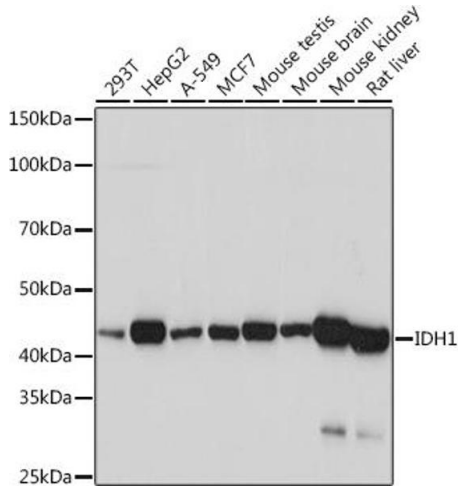
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



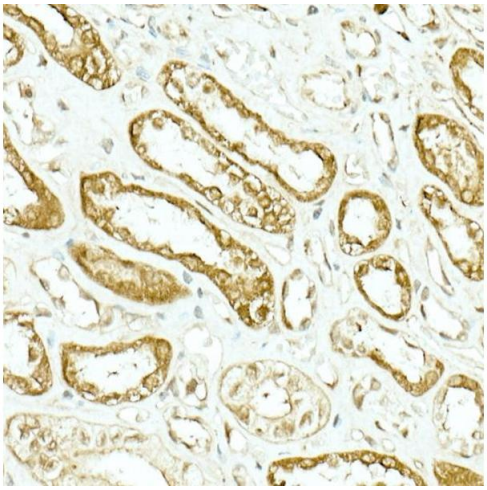
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded rat kidney using IDH1 Rabbit mAb (ABIN7268027) at dilution of 1:500 (40x lens).



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using IDH1 Rabbit mAb (ABIN7268027) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 60s.



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human kidney using IDH1 Rabbit mAb (ABIN7268027) at dilution of 1:500 (40x lens).

Please check the product details page for more images. Overall 7 images are available for ABIN7268027.