

Datasheet for ABIN2785883

anti-IDH1 antibody (C-Term)

2 Images 1 Publication



Go to Product page

Overview	
Quantity:	100 μL
Target:	IDH1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Dog, Cow, Horse, Guinea Pig, Rabbit, Sheep
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IDH1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)
Product Details	
Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human IDH1
Sequence:	VSIETIEAGF MTKDLAACIK GLPNVQRSDY LNTFEFMDKL GENLKIKLAQ
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Sheep: 100%
Characteristics:	This is a rabbit polyclonal antibody against IDH1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified
Target Details	
Target:	IDH1

IDH1 (IDH1 Products) 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(+). 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,
oxoglutarate. These enzymes belong to two distinct subclasses, one of which utilizes NAD(+) as the electron acceptor and the other NADP(+). 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
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peroxisornes suggests roles in the regeneration of NADER for intraperoxisornal 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. 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
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. Publication Note: This RefSeq record includes a subset of the publications that are
available for this gene. Please see the Entrez Gene record to access additional publications.
Alias Symbols: IDH, IDP, PICD, IDCD, IDPC
Protein Interaction Partner: SUMO2, UBC, GLRX3, UBE2H, THOP1, TALDO1, RCN1, RBBP7,
RANBP1, PTMS, OXCT1, NME1, HSPE1, GOT1, FDPS, DCK, ANXA6, ADSS, NME1-NME2, EFHD2
C12orf10, SBDS, CHMP4A, CBX3, SUGT1, PEX5, AK2, AK1, MDH2, ASF1B, CDK2, SLC2A4,
ELAVL1, SUMO4, ZHX1,
Protein Size: 414
47 kDa
3417
NM_005896, NP_005887

075874

UniProt:

Target Details Pathways:

Warburg Effect

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 414 AA
Restrictions:	For Research Use only

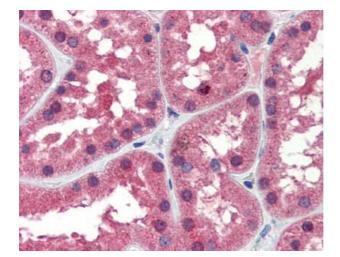
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

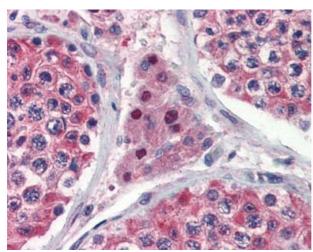
Product cited in:

Jena, Janjanam, Naru, Kumar, Kumar, Singh, Mohapatra, Kola, Anand, Jaswal, Verma, Malakar, Dang, Kaushik, Reddy, Mohanty: "DIGE based proteome analysis of mammary gland tissue in water buffalo (Bubalus bubalis): Lactating vis-a-vis heifer." in: **Journal of proteomics**, Vol. 119C, pp. 100-111, (2015) (PubMed).



Immunohistochemistry

Image 1.



Immunohistochemistry

Image 2.