

Mouse Isocitrate Dehydrogenase/IDH1 Monoclonal Antibody | anti-IDH1 antibody

Isocitrate Dehydrogenase/IDH1 Antibody

CATALOG # AAA312088	HOST Mouse	REACTIVITY Human, Zebrafish	APPLICATIONS Immunohistochemistry, Western Blot
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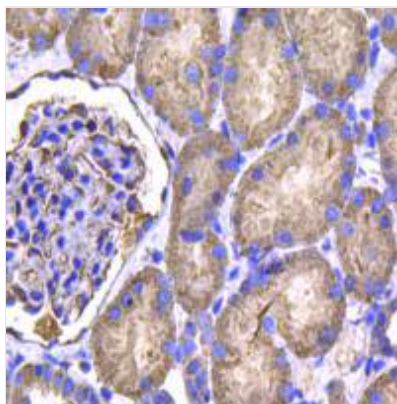
PRODUCT SYNONYMS

Isocitrate Dehydrogenase/IDH1; Monoclonal Antibody; Isocitrate Dehydrogenase/IDH1 Antibody; Cytosolic NADP isocitrate dehydrogenase antibody; Cytosolic NADP-isocitrate dehydrogenase antibody; Epididymis luminal protein 216 antibody; Epididymis secretory protein Li 26 antibody; HEL-216 antibody; HEL-S-26 antibody; ICDH antibody; IDCD antibody; IDH antibody; IDH1 antibody; IDHC_HUMAN antibody; IDP antibody; IDPC antibody; Isocitrate dehydrogenase [NADP] cytoplasmic antibody; Isocitrate dehydrogenase 1 (NADP+) soluble antibody; NADP dependent isocitrate dehydrogenase cytosolic antibody; NADP dependent isocitrate dehydrogenase peroxisomal antibody; NADP (+)-specific ICDH antibody; Oxalosuccinate decarboxylase antibody; PICD antibody; anti-IDH1 antibody

PRODUCT SPECIFICATIONS

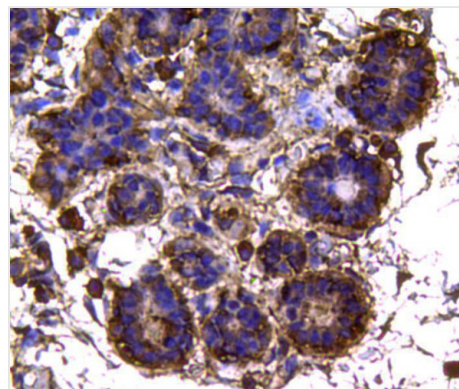
Host	Mouse
Reactivity	Human, Zebrafish
Clonality	Monoclonal
Clone Number	A11-B4
Purity/Purification	ProA affinity purified
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-IDH1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant protein
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.

IMAGES



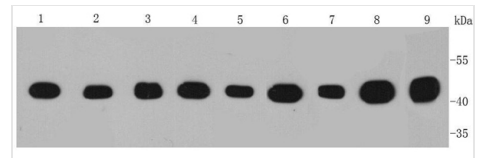
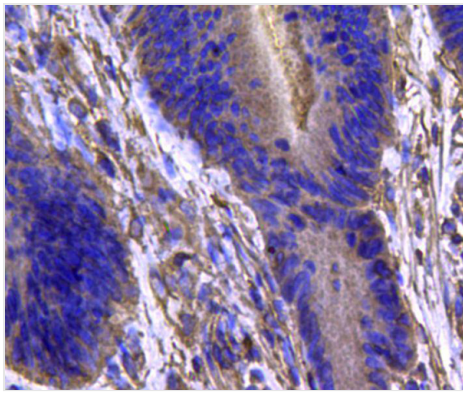
IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-IDH1 antibody. Counter stained with hematoxylin.



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human breast tissue using anti-IDH1 antibody. Counter stained with hematoxylin.



WB (Western Blot)
Western blot analysis of IDH1 on different cell lysates using anti-IDH1 antibody at 1/1000 dilution. Positive control: Lane 1: Hela Lane 2: HepG2 Lane 3: A431 Lane 4: MCF-7 Lane 5: A549 Lane 6: Jurkat Lane 7: Human kidney Lane 8: Human brain Lane 9: Human liver

IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using anti-IDH1 antibody. Counter stained with hematoxylin.

ADDITIONAL INFORMATION

Related Product Information for anti-IDH1 antibody	Isocitrate dehydrogenase (IDH) is an enzyme that catalyzes the oxidative decarboxylation of isocitrate, producing alpha-ketoglutarate (alpha-ketoglutarate) and CO ₂ . In humans, IDH exists in three isoforms: IDH3 catalyzes the third step of the citric acid cycle while converting NAD ⁺ to NADH in the mitochondria. The isoforms IDH1 and IDH2 catalyze the same reaction outside the context of the citric acid cycle and use NADP ⁺ as a cofactor instead of NAD ⁺ . They localize to the cytosol as well as the mitochondrion and peroxisome. Mutations in IDH1 are also implicated in cancer. Originally mutations in IDH1 were detected in an integrated genomic analysis of human glioblastoma multiforme. In addition to being mutated in diffuse gliomas, IDH1 has also been shown to harbor mutations in human acute myeloid leukemia (AML).
Product Categories/Family for anti-IDH1 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	119590846
NCBI GeneID	3417
UniProt Accession #	O75874; Q567U4; Q6FHQ6; Q7Z3V0; Q93090; Q9NTJ9; Q9UKW8
Molecular Weight	46,659 Da
NCBI Official Full Name	isocitrate dehydrogenase 1 (NADP+), soluble, isoform CRA_b
NCBI Official Synonym Full Names	isocitrate dehydrogenase 1 (NADP+), soluble
NCBI Official Symbol	IDH1
NCBI Official Synonym Symbols	IDH; IDP; IDCD; IDPC; PICD; HEL-216; HEL-S-26
NCBI Protein Information	isocitrate dehydrogenase [NADP] cytoplasmic; isocitrate dehydrogenase [NADP] cytoplasmic; NADP(+)-specific ICDH; oxalosuccinate decarboxylase; epididymis luminal protein 216; epididymis secretory protein Li 26; NADP-dependent isocitrate dehydrogenase, cyt
UniProt Protein Name	Isocitrate dehydrogenase [NADP] cytoplasmic
UniProt Gene Name	IDH1
UniProt Synonym Gene Names	PICD; IDH
UniProt Entry Name	IDHC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

