

Isocitrate dehydrogenase/IDH1 Antibody

Catalog No: #48489

Package Size: #48489-1 50ul #48489-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

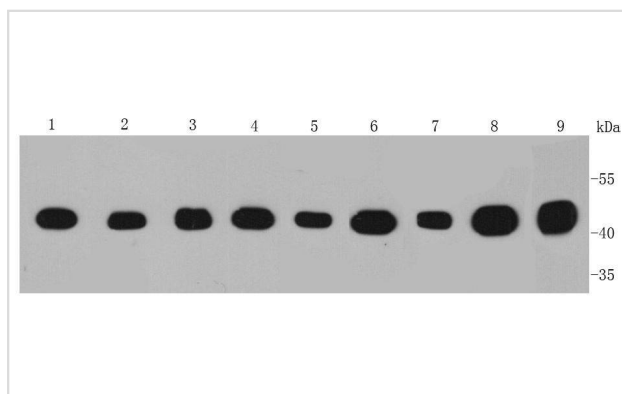
Description

Product Name	Isocitrate dehydrogenase/IDH1 Antibody
Host Species	Mouse
Clonality	Monoclonal
Clone No.	A11-B4
Purification	ProA affinity purified
Applications	WB, IHC
Species Reactivity	Hu, zebrafish
Immunogen Description	recombinant protein
Other Names	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
Accession No.	Swiss-Prot#:O75874
Uniprot	O75874
GeneID	3417;
Calculated MW	47 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

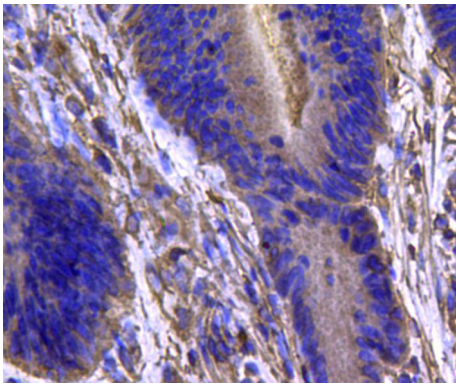
Application Details

WB: 1:1,000 IHC: 1:100-1:200

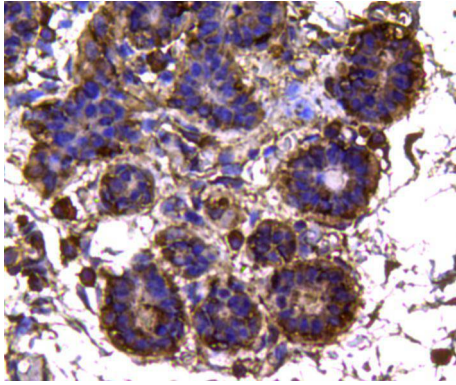
Images



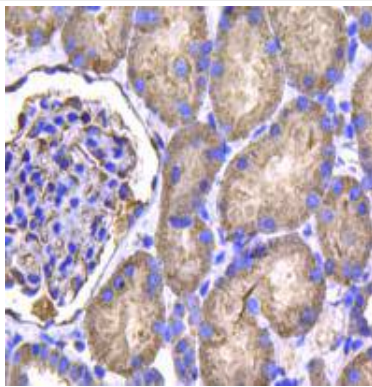
Western blot analysis of IDH1 on different cell lysates using anti-IDH1 antibody at 1/1000 dilution. Positive control: Lane 1: HeLa Lane 2: HepG2 Lane 3: A431 Lane 4: MCF-7 Lane 5: A549 Lane 6: Jurkat Lane 7: Human kidney Lane 8: Human brain Lane 9: Human liver



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



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



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

Background

Isocitrate dehydrogenase (IDH) is an enzyme that catalyzes the oxidative decarboxylation of isocitrate, producing alpha-ketoglutarate (α -ketoglutarate) and CO₂. 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).

References

Note: This product is for in vitro research use only