

Datasheet for ABIN6937474
anti-IDH1 antibody (AA 281-414)



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Overview

Quantity:	100 µg
Target:	IDH1
Binding Specificity:	AA 281-414
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This IDH1 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (IF), Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Immunogen:	Recombinant fragment of human IDH1 protein (around aa 281-414) (exact sequence is proprietary)
Clone:	IDH1-1152
Isotype:	IgG1 kappa
Specificity:	It recognizes a 45 kDa protein, which is identified as isocitrate dehydrogenase (IDH1). It belongs to the isocitrate and isopropylmalate dehydrogenases family. IDH1 catalyzes the third step of the citric acid cycle, which involves the oxidative decarboxylation of isocitrate, forming α -ketoglutarate and CO ₂ in a two-step reaction. The first step involves the oxidation of isocitrate to the intermediate oxalosuccinate, while the second step involves the production of α -ketoglutarate. During this process, either NADH or NADPH is produced along with CO ₂ .

Product Details

Recently, an inactivating mutation of IDH1 has been implicated in glioblastoma. IDH1 appears to function as a tumor suppressor that, when mutationally inactivated, contributes to tumorigenesis in part through induction of the HIF-1 pathway.

Cross-Reactivity (Details): Human.

Purification: 1.0mg/ml of Ab purified from Bioreactor by Protein A/G.

Target Details

Target: IDH1

Alternative Name: IDH1 ([IDH1 Products](#))

Background: Cytosolic NADP-isocitrate dehydrogenase, Epididymis luminal protein 216, Epididymis secretory protein Li 26, HEL-216, HEL-S-26, ICDH, IDCD, IDH1, IDP, IDPC, Isocitrate dehydrogenase 1 (NADP+) soluble, NADP dependent isocitrate dehydrogenase peroxisomal, NADP(+)-specific ICDH, Oxalosuccinate decarboxylase, PICD, IDH1 (Isocitrate Dehydrogenase)
Cellular localisation: Cytoplasm. Nucleus.

Molecular Weight: 45-47kDa

Gene ID: 3417, 593422

UniProt: [075874](#)

Pathways: [Warburg Effect](#)

Application Details

Application Notes: Known_Application: Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL), Western Blot (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT), (Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95 °C followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined.
Positive_Control: HepG2, HeLa, HT29 or MCF7 cells. Human breast, colon or prostate carcinoma.

Restrictions: For Research Use only

Handling

Concentration: 1.0 mg/mL

Handling

Buffer:	Prepared in 10 mM PBS, WITHOUT BSA and Azide.
Preservative:	Azide free
Storage:	-20 °C,-80 °C
Storage Comment:	Antibody without azide store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous.
Expiry Date:	24 months