

Datasheet for ABIN6939688
anti-IDH1 antibody (AA 281-414)



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3 Images

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:	Immunohistochemistry (IHC), Staining Methods (StM)

Product Details

Immunogen:	Recombinant fragment of human IDH1 protein (around aa 281-414) (exact sequence is proprietary)
Clone:	IDH1-1152
Isotype:	IgG1 kappa
Specificity:	<p>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 - ketoglutarate. During this process, either NADH or NADPH is produced along with CO₂.</p> <p>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.</p>

Product Details

Purification: Purified by Protein A/G

Target Details

Target: IDH1

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

Molecular Weight: 45-47kDa

Gene ID: 3417

UniProt: [075874](#)

Pathways: [Warburg Effect](#)

Application Details

Application Notes: Positive Control: HepG2, HeLa, HT29 or MCF7 cells. Breast, Colon or Prostate Carcinoma.
Known Application: Immunohistochemistry (Formalin-fixed) (0.5-1 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

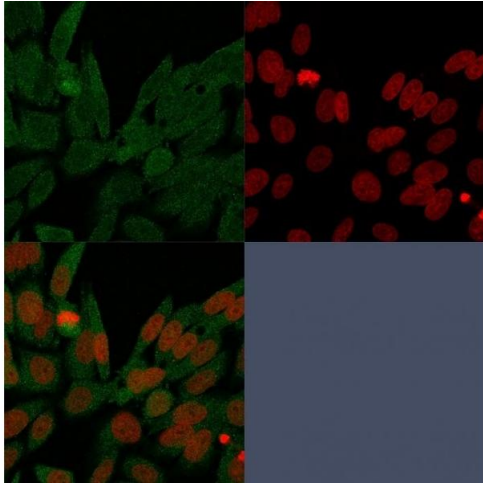
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-80 °C

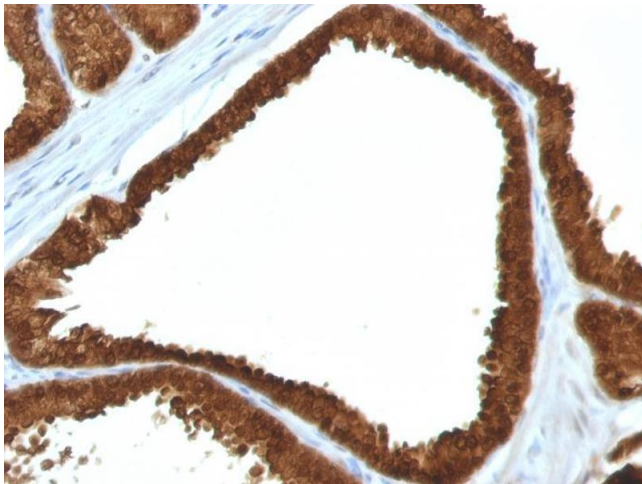
Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



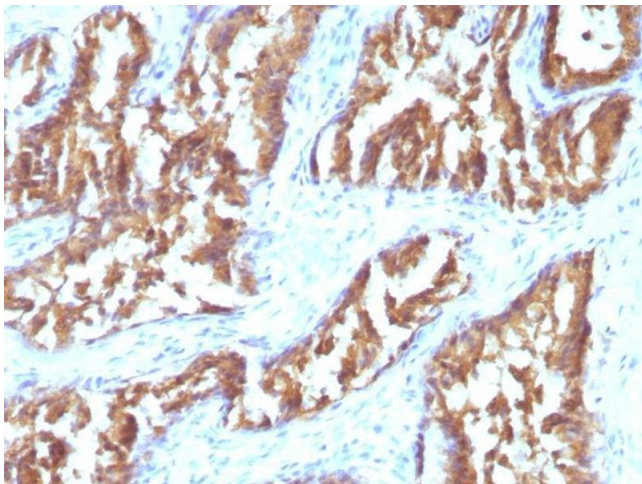
Immunofluorescence

Image 1. Immunofluorescence Analysis of PFA-fixed HeLa cells labeling IDH1. IDH1 Mouse Monoclonal Antibody (IDH1/1152) followed by goat anti-mouse IgG-CF488 (green). Nuclei counterstained with RedDot.



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with IDH1 Mouse Monoclonal Antibody (IDH1/1152).



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with IDH1 Mouse Monoclonal Antibody (IDH1/1152).