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IDH2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant IDH2.
Catalog # AT2479a

Specification

IDH2 Antibody (monoclonal) (M01) - Product Information

Application	**WB, IHC, E**
Primary Accession	P48735
Other Accession	NM_002168
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 Kappa**
Calculated MW	**50909**

IDH2 Antibody (monoclonal) (M01) - Additional Information

Gene ID 3418

Other Names
Isocitrate dehydrogenase [NADP], mitochondrial, IDH, ICD-M, IDP, NADP(+)-specific ICDH, Oxalosuccinate decarboxylase, IDH2

Target/Specificity
IDH2 (NP_002159, 354 a.a. ~ 451 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000
IHC~~1:100~500
E~~N/A

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
IDH2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

IDH2 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot

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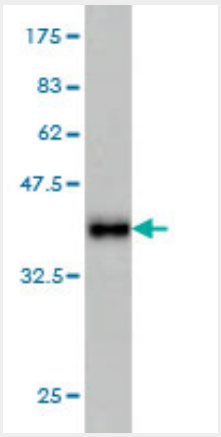
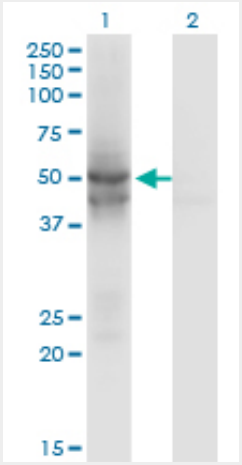
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

IDH2 Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.52 KDa) .



Western Blot analysis of IDH2 expression in transfected 293T cell line by IDH2 monoclonal antibody (M01), clone 5F11.

Lane 1: IDH2 transfected lysate(50.9 KDa).
Lane 2: Non-transfected lysate.

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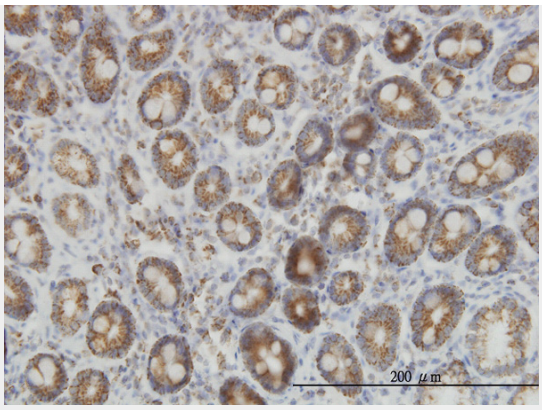
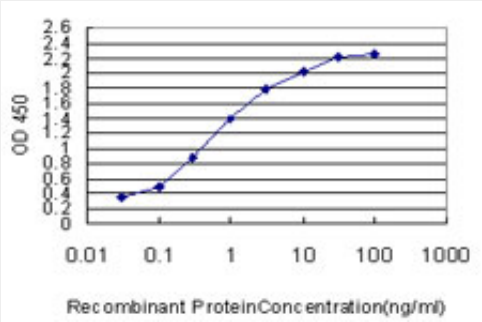


Immunoperoxidase of monoclonal antibody to IDH2 on formalin-fixed paraffin-embedded human colon. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged IDH2 is approximately 0.03ng/ml as a capture antibody.

IDH2 Antibody (monoclonal) (M01) - Background

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 mitochondria. It plays a role in intermediary metabolism and energy production. This protein may tightly associate or interact with the pyruvate dehydrogenase complex.

IDH2 Antibody (monoclonal) (M01) - References

1.Altered global methylation and hydroxymethylation status in vulvar lichen sclerosus - further support for epigenetic mechanisms.Gambichler T, Terras S, Kreuter A, Skrygan MBr J Dermatol. 2013 Oct 27. doi: 10.1111/bjd.12702.