**IDH1 (Isocitrate Dehydrogenase) Antibody - With BSA and Azide**

**Mouse Monoclonal Antibody [Clone IDH1/1152]**

Catalog # AH11495

### Specification

<table>
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<tr>
<th>Application</th>
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<td>Other Accession</td>
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<td>Reactivity</td>
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<td>Host</td>
<td>Mouse</td>
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<td>Clonality</td>
<td>Monoclonal</td>
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<td>Isotype</td>
<td>Mouse / IgG1, kappa</td>
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<tr>
<td>Clone Names</td>
<td>IDH1/1152</td>
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<td>Calculated MW</td>
<td>45-47kDa KDa</td>
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**Gene ID** 3417

**Other Names**
- Isocitrate dehydrogenase (NADP)
- Cytoplasmic, IDH, 1.1.1.42, Cytosolic
- NADP-isocitrate dehydrogenase, IDP, NADP(+)-specific ICDH, Oxalosuccinate decarboxylase, IDH1, PICD

**Storage**
Store at 2 to 8°C. Antibody is stable for 24 months.

**Precautions**
IDH1 (Isocitrate Dehydrogenase) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

**IDH1 (Isocitrate Dehydrogenase) Antibody - With BSA and Azide - Protein Information**

**Name** IDH1

**Synonyms** PICD

**Cellular Location**
Cytoplasm. Peroxisome

**IDH1 (Isocitrate Dehydrogenase) Antibody - With BSA and Azide - Protocols**

Provided below are standard protocols that you

**IDH1 (Isocitrate Dehydrogenase) Antibody - With BSA and Azide - Background**

It recognizes a 45kDa 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 Ï¿-ketoglutarate and CO2 in a two-step reaction. The first step involves the oxidation of isocitrate to the intermediate oxaloacetate, while the second step involves the production of Ï¿-ketoglutarate. During this process, either NADH or NADPH is produced along with CO2.
may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytometry
- Cell Culture

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.

**IDH1 (Isocitrate Dehydrogenase)**

**Antibody - With BSA and Azide -**

**References**