Datasheet for ABIN751543
**anti-IDH3A antibody (AA 281-366)**

### Overview

<table>
<thead>
<tr>
<th>Quantity</th>
<th>100 μL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target</td>
<td>IDH3A</td>
</tr>
<tr>
<td>Binding Specificity</td>
<td>AA 281-366</td>
</tr>
<tr>
<td>Reactivity</td>
<td>Human, Rat</td>
</tr>
<tr>
<td>Host</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Conjugate</td>
<td>This IDH3A antibody is un-conjugated</td>
</tr>
<tr>
<td>Application</td>
<td>Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))</td>
</tr>
</tbody>
</table>

### Product Details

<table>
<thead>
<tr>
<th>Immunogen</th>
<th>KLH conjugated synthetic peptide derived from human IDH3A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isotype</td>
<td>IgG</td>
</tr>
<tr>
<td>Predicted Reactivity</td>
<td>Mouse,Cow,Pig,Horse,Rabbit</td>
</tr>
<tr>
<td>Purification</td>
<td>Purified by Protein A.</td>
</tr>
</tbody>
</table>

### Target Details

<table>
<thead>
<tr>
<th>Target</th>
<th>IDH3A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternative Name</td>
<td>Idh3a (<a href="https://www.antibodies-online.com">IDH3A Products</a>)</td>
</tr>
</tbody>
</table>
Target Details

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. NAD(+)‐dependent isocitrate dehydrogenases catalyze the allosterically regulated rate‐limiting step of the tricarboxylic acid cycle. Each isozyme is a heterotetramer that is composed of two alpha subunits, one beta subunit, and one gamma subunit. IDH3A is the alpha subunit of one isozyme of NAD(+)‐dependent isocitrate dehydrogenase.

Subcellular location: Cytoplasm

Synonyms: Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial, Isocitric dehydrogenase subunit alpha, NAD(+)-specific ICDH subunit alpha, IDH3A

Gene ID: 3419

UniProt: P50213

Application Details

Application Notes:
- WB 1:300-5000
- ELISA 1:500-1000
- IHC-P 1:200-400
- IHC-F 1:100-500
- IF(IHC-P) 1:50-200
- IF(IHC-F) 1:50-200
- IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 μg/μL

Buffer: 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be

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Handling

handled by trained staff only.

Storage:  
-20 °C

Storage Comment:  
Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date:  
12 months

Publications

Product cited in:


Images

Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat brain labeled with Anti-IDH3A Polyclonal Antibody, Unconjugated (ABIN751543) at 1:200 followed by conjugation to the secondary antibody and DAB staining.
**ELISA**

**Image 2.** Antigen: 2 µg/100 µL Primary: Antiserum, 1:500, 1:1000, 1:2000, 1:4000, 1:8000, 1:16000, 1:32000; Secondary: HRP conjugated Rabbit Anti-Goat IgG at 1: 5000; TMB staining Read the data in Microplate Reader by 450nm.

**Image 3.** Antigen: 0.2ug/100ul, Primary: Antiserum, 1:500, 1:1000, 1:2000, 1:4000, 1:8000, 1:16000, 1:32000, Secondary: HRP conjugated Goat-Anti-Rabbit IgG at 1: 5000, TMB staining, Read the data in MicroplateReader by 450nm.