

Datasheet for ABIN391659  
**anti-IDH1 antibody (N-Term)**[Go to Product page](#)

## 4 Images

## Overview

|                      |   |
|----------------------|---|
| Quantity:            | 400 µL  |
| Target:              | IDH1  |
| Binding Specificity: | AA 63-90, N-Term  |
| Reactivity:          | Human, Mouse  |
| Host:                | Rabbit  |
| Clonality:           | Polyclonal  |
| Conjugate:           | This IDH1 antibody is un-conjugated   |
| Application:         | Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (IF),<br>Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

## Product Details

|                       |  |
|-----------------------|--|
| Immunogen:            | This IDH1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 63-90 amino acids from the N-terminal region of human IDH1. |
| Clone:                | RB18237  |
| Isotype:              | Ig Fraction  |
| Predicted Reactivity: | B, Rat, Sh   |
| Purification:         | This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.  |

## Target Details

|         |      |
|---------|------|
| Target: | IDH1 |
|---------|------|

## Target Details

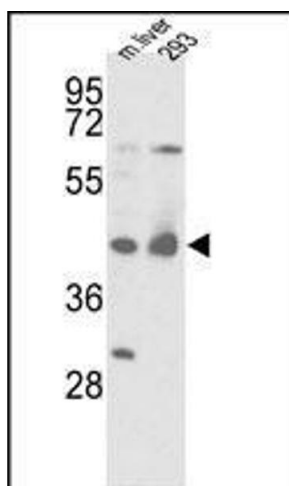
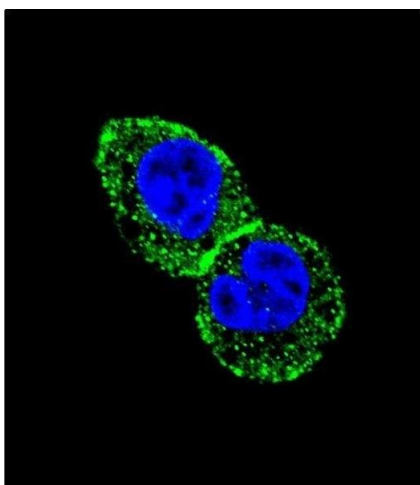
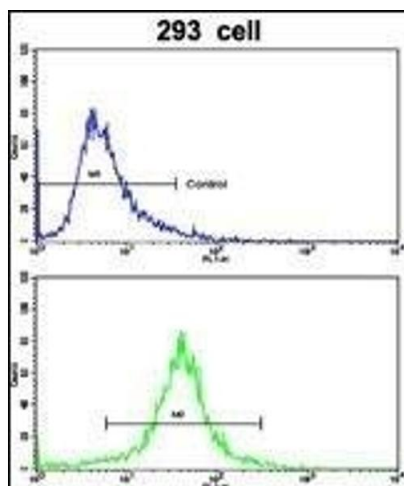
|                   |  |
|-------------------|--|
| Alternative Name: | IDH1 ( <a href="#">IDH1 Products</a> )   |
| Background:       | IDH1 belongs to two distinct subclasses. The protein is the NADP(+)-dependent isocitrate dehydrogenase found in the cytoplasm and peroxisomes. This protein contains the PTS-1 peroxisomal targeting signal sequence. The presence of this enzyme in peroxisomes suggests roles in the regeneration of NADPH for intraperoxisomal reductions, such as the conversion of 2, 4-dienoyl-CoAs to 3-enoyl-CoAs, as well as in peroxisomal reactions that consume 2-oxoglutarate, namely the alpha-hydroxylation of phytanic acid. The cytoplasmic enzyme serves a significant role in cytoplasmic NADPH production. |
| Molecular Weight: | 46659  |
| Gene ID:          | 3417   |
| NCBI Accession:   | <a href="#">NP_001269315</a> , <a href="#">NP_001269316</a> , <a href="#">NP_005887</a>  |
| UniProt:          | <a href="#">O75874</a>   |
| Pathways:         | <a href="#">Warburg Effect</a>   |

## Application Details

|                    |   |
|--------------------|---|
| Application Notes: | IF: 1:10~50. WB: 1:1000. IHC-P: 1:50~100. FC: 1:10~50 |
| Restrictions:      | For Research Use only                                 |

## Handling

|                    |  |
|--------------------|--|
| Format:            | Liquid   |
| Buffer:            | Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium 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, -20 °C   |
| Storage Comment:   | Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles. |
| Expiry Date:       | 6 months   |



### Flow Cytometry

**Image 1.** Flow cytometric analysis of 293 cells using IDH1 Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat anti-rabbit secondary antibodies were used for the analysis.

### Immunofluorescence

**Image 2.** Confocal immunofluorescent analysis of IDH1 Antibody (N-term) (ABIN391659 and ABIN2841570) with HepG2 cells followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).

### Western Blotting

**Image 3.** Western blot analysis of IDH1 Antibody (N-term) (ABIN391659 and ABIN2841570) in mouse liver tissue and 293 cell line lysates (35 µg/lane). IDH1 (arrow) was detected using the purified Pab.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN391659.