# ARG66929
# anti-IDH1 antibody (R132H) [SQab22257]

Package: 100 µl, 50 µl
Store at: -20°C

## Summary

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| Product Description | Recombinant Rabbit Monoclonal antibody [SQab22257] recognizes IDH1 (R132H) |
| Tested Reactivity | Hu |
| Tested Application | IHC-P |
| Host | Rabbit |
| Clonality | Monoclonal |
| Clone | SQab22257 |
| Isotype | IgG |
| Target Name | IDH1 |
| Species | Human |
| Immunogen | Synthetic peptide around the region of Human IDH1 R132H. |
| Conjugation | Un-conjugated |
| Alternate Names | IDPC; EC 1.1.1.42; Cytosolic NADP-isocitrate dehydrogenase; IDP; HEL-S-26; HEL-216; Isocitrate dehydrogenase [NADP] cytoplasmic; IDH; PICD; IDCD; NADP; Oxalosuccinate decarboxylase |

## Application Instructions

Application table

| Application | Dilution |
|---|---|
| IHC-P | 1:100 - 1:200 |

Application Note: IHC-P: Antigen Retrieval: Heat mediated was performed using Tris/EDTA buffer (pH 9.0). Incubate the samples at RT (18-25°C) for 30 min.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: Human glioma (IDH1 R132H) tissue

## Properties

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| Form | Liquid |
| Purification | Purification with Protein A. |
| Buffer | PBS, 0.01% Sodium azide, 40% Glycerol and 0.05%BSA. |
| Preservative | 0.01% Sodium azide |
| Stabilizer | 40% Glycerol and 0.05%BSA |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |

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| Note | For laboratory research only, not for drug, diagnostic or other use. |

## Bioinformation

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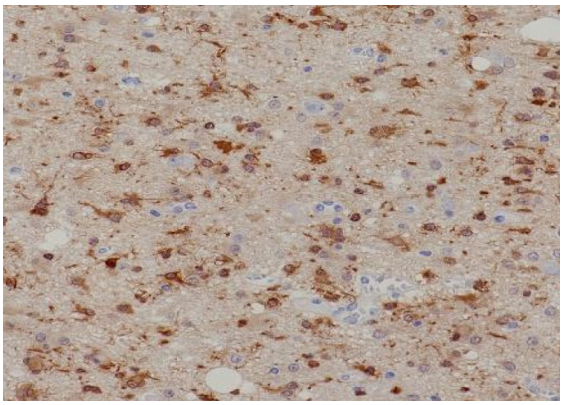
| Gene Symbol | IDH1 |
| Gene Full Name | isocitrate dehydrogenase 1 (NADP+), soluble |
| Background | Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. These enzymes belong to two distinct subclasses, one of which utilizes NAD(+) as the electron acceptor 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 cytoplasm and peroxisomes. It 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. Alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Sep 2013] |
| Highlight | Related products:<br>Isocitrate Dehydrogenase antibodies; Isocitrate Dehydrogenase ELISA Kits; Anti-Rabbit IgG secondary antibodies;<br>Related news:<br>TCA intermediate fumarate promotes mitobiogenesis |
| Research Area | Cancer antibody; Metabolism antibody; Signaling Transduction antibody |
| Calculated Mw | 47 kDa |
| PTM | Acetylation at Lys-374 dramatically reduces catalytic activity. |

## Images



ARG66929 anti-IDH1 antibody (R132H) [SQab22257] IHC-P image

Immunohistochemistry: Formalin/PFA-fixed and paraffin-embedded sections of Human glioma (IDH1 R132H) tissue stained with ARG66929 anti-IDH1 antibody (R132H) [SQab22257]. Antigen Retrieval: Heat tissue section in Tris-EDTA buffer (pH 9.0).