

# KD-Validated Anti-IDH1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1060

## Product Information

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| <b>Application</b>       | WB, FC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Primary Accession</b> | <a href="#">O75874</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Reactivity</b>        | Rat, Human, Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Clonality</b>         | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Isotype</b>           | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Clone Names</b>       | 23GB 2105                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Calculated MW</b>     | 46659                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Gene Name</b>         | IDH1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Aliases</b>           | IDH1; Isocitrate Dehydrogenase (NADP(+)) 1; Isocitrate Dehydrogenase (NADP(+)) 1, Cytosolic; Isocitrate Dehydrogenase 1 (NADP+), Soluble; Isocitrate Dehydrogenase [NADP] Cytoplasmic; Oxalosuccinate Decarboxylase; NADP(+)-Specific ICDH; EC 1.1.1.42; PICD; IDH; NADP-Dependent Isocitrate Dehydrogenase, Peroxisomal; NADP-Dependent Isocitrate Dehydrogenase, Cytosolic; Epididymis Secretory Sperm Binding Protein; Cytosolic NADP-Isocitrate Dehydrogenase; Isocitrate Dehydrogenase 1 (NADP+); Epididymis Secretory Protein Li 26; Epididymis Luminal Protein 216; HEL-S-26; HEL-216; IDCD; IDPC; IDPc; IDP |
| <b>Immunogen</b>         | A synthesized peptide derived from human IDH1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Additional Information

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|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>     | 3417                                                                                                                                                                             |
| <b>Other Names</b> | Isocitrate dehydrogenase [NADP] cytoplasmic, IDH, IDH1, 1.1.1.42, Cytosolic NADP-isocitrate dehydrogenase, IDPc, NADP(+)-specific ICDH, Oxalosuccinate decarboxylase, IDH1, PICD |

## Protein Information

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| <b>Name</b>              | IDH1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>          | PICD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Function</b>          | Catalyzes the NADP(+)-dependent oxidative decarboxylation of isocitrate (D-threo-isocitrate) to 2-ketoglutarate (2-oxoglutarate), which is required by other enzymes such as the phytanoyl-CoA dioxygenase (PubMed: <a href="#">10521434</a> , PubMed: <a href="#">19935646</a> ). Plays a critical role in the generation of NADPH, an important cofactor in many biosynthesis pathways (PubMed: <a href="#">10521434</a> ). May act as a corneal epithelial crystallin and may be involved in maintaining corneal epithelial transparency (By similarity). |
| <b>Cellular Location</b> | Cytoplasm, cytosol. Peroxisome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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