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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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|-----------------------------------|--|
| Product Number | ARP54787_P050-Biotin |
| Product Page | www.avivasysbio.com/idh1-antibody-c-terminal-region-biotin-arp54787-p050-biotin.html |
| Name | IDH1 Antibody - C-terminal region : Biotin (ARP54787_P050-Biotin) |
| Protein Size (# AA) | 414 amino acids |
| Molecular Weight | 47kDa |
| Conjugation | Biotin |
| NCBI Gene Id | 3417 |
| Host | Rabbit |
| Clonality | Polyclonal |
| Concentration | 0.5 mg/ml |
| Gene Full Name | Isocitrate dehydrogenase 1 (NADP+), soluble |
| Alias Symbols | IDH, IDP, IDCD, IDPC, PICD, HEL-216, HEL-S-26 |
| Peptide Sequence | Synthetic peptide located within the following region: MMTSVLVCPDGKTVEAEAAHGTVTRHYRMYQKGGQETSTNPIASIFAWTRG |
| Product Format | Liquid. Purified antibody supplied in 1x PBS buffer. |
| Reference | Kullberg,M., (2006) Mol. Biol. Evol. 23 (8), 1493-1503 |
| Description of Target | <p>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(+). 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. 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. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.</p> |
| Protein Interactions | SUMO2; UBC; GLRX3; UBE2H; THOP1; TALDO1; RCN1; RBBP7; RANBP1; PTMS; OXCT1; NME1; HSPE1; GOT1; FDPS; DCK; ANXA6; ADSS; NME1-NME2; EFHD2; C12orf10; SBDS; CHMP4A; CBX3; SUGT1; PEX5; AK2; AK1; MDH2; ASF1B; CDK2; SLC2A4; ELAVL1; SUMO4; ZHX1; |
| Reconstitution and Storage | All conjugated antibodies should be stored in light-protected vials or covered with a light protecting material (i.e. aluminum foil). Conjugated antibodies are stable for at least 12 months at 4C. If longer storage is desired (24 months), conjugates may be diluted with up to 50% glycerol and stored at -20C to -80C. Freezing and thawing conjugated antibodies will compromise enzyme activity as well as antibody binding. |
| Datasheets/Manuals | Printable datasheet for anti-IDH1 (ARP54787_P050-Biotin) antibody |

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| Additional Information | IHC Information: Human Testis (formalin-fixed, paraffin-embedded) stained with IDH1 antibody ARP54787_P050 followed by biotinylated goat anti-rabbit IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen. IHC Information: Human Testis (formalin-fixed, paraffin-embedded) stained with IDH1 antibody ARP54787_P050 followed by biotinylated goat anti-rabbit IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen. |
| Blocking Peptide | For anti-IDH1 (ARP54787_P050-Biotin) antibody is Catalog# AAP54787 (Previous Catalog # AAPP31582) |
| Immunogen | The immunogen is a synthetic peptide directed towards the C terminal region of human IDH1 |
| Uniprot ID | O75874 |
| Protein Name | Isocitrate dehydrogenase [NAD] regulatory subunit 1, mitochondrial |
| Sample Type Confirmation | IDH1 is supported by BioGPS gene expression data to be expressed in HepG2 |
| Protein Accession # | NP_005887 |
| Purification | Affinity Purified |
| Nucleotide Accession # | NM_005896 |
| Gene Symbol | IDH1 |
| Predicted Species Reactivity | Human, Mouse, Rat, Cow, Dog, Guinea Pig, Horse, Rabbit, Sheep, Yeast |
| Application | IHC, WB |
| Predicted Homology Based on Immunogen Sequence | Cow: 100%; Dog: 100%; Guinea Pig: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%; Sheep: 100%; Yeast: 93% |
| Image 1 |  |

AVIVA SYSTEMS BIOLOGY manufactures and sells quality antibody products covering genome wide proteins.

This product is for Research Use Only. Not for diagnostic, human, or veterinary use.
Optimal conditions of its use should be determined by end users.

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