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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
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Product Number	ARP54788_P050-Biotin
Product Page	www.avivasysbio.com/idh1-antibody-c-terminal-region-biotin-arp54788-p050-biotin.html
Name	IDH1 Antibody - C-terminal region : Biotin (ARP54788_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: VSJETIEAGFMTKDLAACIKGLPNVQRSDYLNTFEFMDKLGENLKIKLAQ
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 (ARP54788_P050-Biotin) antibody

Additional Information	IHC Information: Human Testis (formalin-fixed, paraffin-embedded) stained with IDH1 antibody ARP54788_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 ARP54788_P050 followed by biotinylated goat anti-rabbit IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.
Blocking Peptide	For anti-IDH1 (ARP54788_P050-Biotin) antibody is Catalog# AAP54788 (Previous Catalog# AAPP31583)
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, MCF7
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
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%
Image 1	

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Optimal conditions of its use should be determined by end users.

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