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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 | ARP56216_P050-HRP |
| Product Page | www.avivasysbio.com/aldh18a1-antibody-n-terminal-region-hrp-arp56216-p050-hrp.html |
| Name | ALDH18A1 Antibody - N-terminal region : HRP (ARP56216_P050-HRP) |
| Protein Size (# AA) | 793 amino acids |
| Molecular Weight | 87kDa |
| Conjugation | HRP: Horseradish Peroxidase |
| NCBI Gene Id | 5832 |
| Host | Rabbit |
| Clonality | Polyclonal |
| Concentration | 0.5 mg/ml |
| Gene Full Name | Aldehyde dehydrogenase 18 family, member A1 |
| Alias Symbols | GSAS, P5CS, PYCS, SPG9, ADCL3, SPG9A, SPG9B, ARCL3A |
| Peptide Sequence | Synthetic peptide located within the following region: SVIRHVRSWSNIPFITVPLSRTHGKSFAHRSELKHAKRIVVVKLGSAVVTR |
| Product Format | Liquid. Purified antibody is supplied in high phosphate PBS, 100 mM phosphate, 150 mM NaCl, pH 7.6. |
| Reference | Baumgartner, M.R., (2005) Eur. J. Pediatr. 164 (1), 31-36 |
| Description of Target | This gene is a member of the aldehyde dehydrogenase family and encodes a bifunctional ATP- and NADPH-dependent mitochondrial enzyme with both gamma-glutamyl kinase and gamma-glutamyl phosphate reductase activities. The encoded protein catalyzes the reduction of glutamate to delta1-pyrroline-5-carboxylate, a critical step in the de novo biosynthesis of proline, ornithine and arginine. Mutations in this gene lead to hyperammonemia, hypoorithinemia, hypocitrullinemia, hypoargininemia and hypoprolinemia and may be associated with neurodegeneration, cataracts and connective tissue diseases. This gene is a member of the aldehyde dehydrogenase family and encodes a bifunctional ATP- and NADPH-dependent mitochondrial enzyme with both gamma-glutamyl kinase and gamma-glutamyl phosphate reductase activities. The encoded protein catalyzes the reduction of glutamate to delta1-pyrroline-5-carboxylate, a critical step in the de novo biosynthesis of proline, ornithine and arginine. Mutations in this gene lead to hyperammonemia, hypoorithinemia, hypocitrullinemia, hypoargininemia and hypoprolinemia and may be associated with neurodegeneration, cataracts and connective tissue diseases. Alternatively spliced transcript variants, encoding different isoforms, have been described for this gene. |
| Protein Interactions | CMTM5; AGTRAP; UBC; SUMO2; SUMO3; STAU1; MDM2; LATS2; ADRB2; VCP; TIMM13; SUMO1; NONO; MTHFD1; ILF3; ILF2; DDX1; CUL3; CDK2; SIRT7; TCF3; Haus1; Mical3; Trim69; Cbx1; HDAC5; MYC; ICT1; ZRANB1; |
| 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-ALDH18A1 (ARP56216_P050-HRP) antibody |
| Blocking Peptide | For anti-ALDH18A1 (ARP56216_P050-HRP) antibody is Catalog # AAP56216 (Previous Catalog # AAPP38135) |
| Immunogen | The immunogen is a synthetic peptide directed towards the N terminal region of human ALDH18A1 |
| Uniprot ID | P54886 |
| Protein Name | Delta-1-pyrroline-5-carboxylate synthase |
| Sample Type Confirmation | ALDH18A1 is supported by BioGPS gene expression data to be expressed in 721_B |
| Protein Accession # | NP_001017423 |

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|---|---|
| Purification | Affinity Purified |
| Nucleotide Accession # | NM_001017423 |
| Gene Symbol | ALDH18A1 |
| Predicted Species Reactivity | Human, Mouse, Rat, Cow, Dog, Guinea Pig, Horse, Pig, Rabbit, Zebrafish |
| Application | WB |
| Predicted Homology Based on Immunogen Sequence | Cow: 100%; Dog: 93%; Guinea Pig: 86%; Horse: 100%; Human: 100%; Mouse: 86%; Pig: 100%; Rabbit: 93%; Rat: 100%; Zebrafish: 92% |
| Image 1 |  |

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

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

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