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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Product Number	ARP56216_P050-Biotin
Product Page	www.avivasysbio.com/aldh18a1-antibody-n-terminal-region-biotin-arp56216-p050-biotin.html
Name	ALDH18A1 Antibody - N-terminal region : Biotin (ARP56216_P050-Biotin)
Protein Size (# AA)	793 amino acids
Molecular Weight	87kDa
Conjugation	Biotin
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 supplied in 1x PBS buffer.
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-Biotin) antibody
Blocking Peptide	For anti-ALDH18A1 (ARP56216_P050-Biotin) 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

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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