

DNAxPAb

Hard-to-Find
Antibody

ALDH18A1 DNAxPab

Catalog # H00005832-W01P

Size 200 ug

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human ALDH18A1 DNA using DNAx™ Immune technology.
Technology	DNAx™ Immune
Immunogen	Full-length human DNA
Sequence	MLSQVYRCGFQPFNQHLLPWVKCTTVFRSHCIQPSVIRHVRWSNIPFITVPLSRTHGKSFAHRSE LKHAKRIVVKLGSAVVTRGDECGLALGRLASVEQSVLQNQGREMMLVTSGAVAFGKQRLRHEI LLSQSVRQALHSGQNQLKEMAIPVLEARACAAAGQSGLMALYEAMFTQYSICAAQILVTNLD FHD EQKRRNLNGTLHELLRMNIVPINTNDVVPPAEPNSDLQGVNVISVKDNDSLAARLAVEMKTDLL MLSDVEGLFDSPPGSDDAKLIDIFYPGDQQSVTFGTCSRVMGGMGMEAKVKAALWALQGGTSVVI ANGTHPKVSGHVITDIVEGKKVGTFFSEVKPAGPTVEQQGEMARSGGRMLATLEPEQRAEIIHHLA DLLTDQRDEILLANKKDLEEAEGRLAAPLLKRLSLSTSKLNSLAIGLRQIAASSQDSVGRVLRRTRI AKNLELEQVTVPIGVLLVIFESRPDCLPQVAALAIASGNGLLLKGGKEAAHSNRILHLLTQEALSIHG VKEAVQLVNTREEVEDLCRLDKMIDLIIPRGSSQLVRDIQKAAKGIPVMGHSEGICHMYVDSEASV DKVTRLVRDSKCEYPAACNALETLLIHRDLLRTPLFDQIIDMLRVEQVKIHAGPKFASYLTFSPSEV KSLRTEYGDLELCIEVVDNVQDAIDHIIHKYSSHTDVIIVTEDENTAEFFLQHVDSACVFWNASTRF SDGYRFGPGAIEVGISTSRHARGPVGLEGLLTTKWLLRGKDHVVSDFSEHGSLKYLHENLPIQQRN TN
Host	Rabbit
Reactivity	Human
Purification	Protein A
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)

- Flow Cytometry (Transfected cell)

Gene Info — ALDH18A1

Entrez GeneID [5832](#)

GeneBank Accession# [HQ258499.1](#)

Protein Accession# [ADR83253.1](#)

Gene Name ALDH18A1

Gene Alias GSAS, MGC117316, P5CS, PYCS

Gene Description aldehyde dehydrogenase 18 family, member A1

Omim ID [138250](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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, hypornithinemia, 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. [provided by RefSeq]

Other Designations OTTHUMP00000020159|OTTHUMP00000020160|delta1-pyrroline-5-carboxylate synthetase|glutamate gamma-semialdehyde synthetase|pyrroline-5-carboxylate synthetase|pyrroline-5-carboxylate synthetase|pyrroline-5-carboxylate synthetase (glutamate gamma-semialdehyde sy

Pathway

- [Arginine and proline metabolism](#)

Disease

- [Alzheimer Disease](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Tobacco Use Disorder](#)