

KD-Validated Anti-ALDH4A1 Mouse Monoclonal Antibody

Mouse monoclonal antibody

Catalog # AGI1117

Product Information

Application	WB
Primary Accession	P30038
Reactivity	Rat, Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	25GB525
Calculated MW	61719
Gene Name	ALDH4A1
Aliases	ALDH4A1; Aldehyde Dehydrogenase 4 Family Member A1; L-Glutamate Gamma-Semialdehyde Dehydrogenase; P5CDH; ALDH4; Delta-1-Pyrroline-5-Carboxylate Dehydrogenase, Mitochondrial; Aldehyde Dehydrogenase Family 4 Member A1; P5C Dehydrogenase; Mitochondrial Delta-1-Pyrroline 5-Carboxylate Dehydrogenase; Delta-1-Pyrroline-5-Carboxylate Dehydrogenase; Aldehyde Dehydrogenase 4 Family, Member A1; Epididymis Secretory Sperm Binding Protein; EC 1.2.1.88; EC 1.5.1.12; P5CDH; P5CD
Immunogen	Recombinant protein of human ALDH4A1

Additional Information

Gene ID	8659
Other Names	Delta-1-pyrroline-5-carboxylate dehydrogenase, mitochondrial, P5C dehydrogenase, 1.2.1.88, Aldehyde dehydrogenase family 4 member A1, L-glutamate gamma-semialdehyde dehydrogenase, ALDH4A1, ALDH4, P5CDH

Protein Information

Name	ALDH4A1
Synonyms	ALDH4, P5CDH
Function	Irreversible conversion of delta-1-pyrroline-5-carboxylate (P5C), derived either from proline or ornithine, to glutamate. This is a necessary step in the pathway interconnecting the urea and tricarboxylic acid cycles. The preferred substrate is glutamic gamma- semialdehyde, other substrates include succinic, glutaric and adipic semialdehydes.
Cellular Location	Mitochondrion matrix.
Tissue Location	Highest expression is found in liver followed by skeletal muscle, kidney, heart, brain, placenta, lung and pancreas

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.