ASL Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ASL, Polyclonal Antibody
Full Product Name	ASL Conjugated Antibody
Product Gene Name	anti-ASL antibody
Product Synonym Names	ASAL
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total ASL protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	48,733 Da
OMIM	phenotype 608310
3D Structure	ModBase 3D Structure for P04424
Immunogen	Fusion protein corresponding to residues near the C terminal of human argininosuccinate lyase
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-ASL antibody	Most Applications
Application Notes for anti-ASL antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-ASL antibody	This gene encodes a member of the lyase 1 family. The encoded protein forMouse a cytosolic homotetramer and primarily catalyzes the reversible hydrolytic cleavage of argininosuccinate into arginine and fumarate, an essential step in the liver in detoxifying ammonia via the urea cycle. Mutations in this gene result in the autosomal recessive disorder argininosuccinic aciduria, or argininosuccinic acid lyase deficiency. A nontranscribed pseudogene is also located on the long arm of chromosome 22. Alternatively spliced transcript variants encoding different isoforMouse have been described.
Other Notes	Small volumes of anti-ASL antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ASL purchase	MBS9446589 is an antibody targeting ASL. Also known as ASL Conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ASL. It may not necessarily be applicable to this product.

NCBI GI #	14198269
NCBI GeneID	435
NCBI Accession #	BC008195
UniProt Primary Accession #	P04424
UniProt Secondary Accession #	Q6LDS5; Q96HS2; E7EMI0; E9PE48
UniProt Related Accession #	P04424
NCBI Official Full Name	Homo sapiens argininosuccinate lyase, mRNA
NCBI Official Synonym Full Names	argininosuccinate lyase
NCBI Official Symbol	ASL
NCBI Official Synonym Symbols	ASAL
UniProt Protein Name	Argininosuccinate lyase
UniProt Synonym Protein Names	Arginosuccinase
Protein Family	Adenylosuccinate lyase
UniProt Gene Name	ASL
UniProt Synonym Gene Names	ASAL
UniProt Entry Name	ARLY_HUMAN
NCBI Protein Information	argininosuccinate lyase
NCBI Summary for ASL	This gene encodes a member of the lyase 1 family. The encoded protein forms a cytosolic homotetramer and primarily catalyzes the reversible hydrolytic cleavage of argininosuccinate into arginine and fumarate, an essential step in the liver in detoxifying ammonia via the urea cycle. Mutations in this gene result in the autosomal recessive disorder argininosuccinic aciduria, or argininosuccinic acid lyase deficiency. A nontranscribed pseudogene is also located on the long arm of chromosome 22. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]
UniProt Comments for ASL	ASL: Defects in ASL are the cause of arginosuccinic aciduria (ARGINSA). An autosomal recessive disorder of the urea cycle. The disease is characterized by mental and physical retardation, liver enlargement, skin lesions, dry and brittle hair showing trichorrhexis nodosa microscopically and fluorescing red, convulsions, and episodic unconsciousness. Belongs to the lyase 1 family. Argininosuccinate lyase subfamily. Protein type: Lyase; Amino Acid Metabolism - alanine, aspartate and glutamate; EC 4.3.2.1; Amino Acid Metabolism - arginine and proline Chromosomal Location of Human Ortholog: 7q11.21 Cellular Component: cytoplasm; cytosol Molecular Function: argininosuccinate lyase activity Biological Process: arginine catabolic process; arginine biosynthetic process via ornithine; internal protein amino acid acetylation; urea cycle Disease: Argininosuccinic Aciduria
Research Articles on ASL	**1.** the mechanism induced by ASL shRNA which occurred in human breast cancer may be attributed to a decrease in cyclin A2 and NO.

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