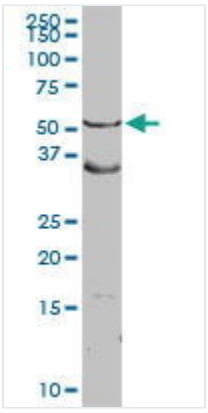
# ASL Antibody – Rabbit Polyclonal

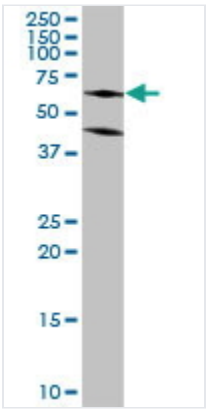
## PRODUCT OVERVIEW

| | |
|---|---|
| **Product Name** | ASL, Polyclonal Antibody |
| **Full Product Name** | ASL (Arginosuccinase, Argininosuccinate Lyase, ASAL) (FITC) |
| **Product Gene Name** | anti-ASL antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC). |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Specificity** | Recognizes human ASL. Species Crossreactivity: mouse. |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor |
| **Molecular Weight** | 48,733 Da |
| **OMIM** | phenotype 608310 |
| **3D Structure** | ModBase 3D Structure for P04424 |
| **Immunogen** | Full length human ASL, aa1-464 (NP_000039.2). |
| **Immunogen Sequence** | MASESGKLWGGRFVGAVDPIMEKFNASIAYDRHLWEVDVQGSKAYSRGLEKAGLLTKAEMDQILHGLDKVAEEWAQGTFKLNSNDEDIHTANERRLKEL |
| **Conjugate** | FITC |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-ASL antibody** | Antibodies; Enzymes |
| **Applications Tested/Suitable for anti-ASL antibody** | Western Blot (WB) |
| **Application Notes for anti-ASL antibody** | Applications are based on unconjugated antibody. |
| **Related Product Information for anti-ASL antibody** | ASL is a member of the lyase 1 family. This protein forms a cytosolic homotetramer and primarily catalyzes the reversible hydrolytic cleavage of arginin |
| **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 necessar |

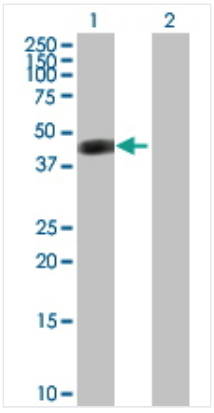
| | |
|---|---|
| **Searchable Terms for ASL purchase** | MBS6370499 is an antibody targeting ASL. Also known as ASL (Arginosuccinase, Argininosuccinate Lyase, ASAL) (FITC). Reactive in Human, Mouse |




**Western Blot (WB) of anti-ASL antibody**
ASL rabbit polyclonal antibody. Western Blot analysis of ASL expression in human liver.




**Western Blot (WB) of anti-ASL antibody**
ASL rabbit polyclonal antibody. Western Blot analysis of ASL expression in mouse kidney.




**Western Blot (WB) of anti-ASL antibody**
Western Blot analysis of ASL expression in transfected 293T cell line by ASL polyclonal antibody. Lane 1: ASL transfected lysate (51.7kD). Lane 2: Non-transfected lysate.

## ADDITIONAL DETAILS

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

| | |
|---|---|
| **NCBI GI #** | 31541964 |
| **NCBI GeneID** | 435 |
| **NCBI Accession #** | NP_000039.2 |
| **UniProt Primary Accession #** | P04424 |
| **UniProt Secondary Accession #** | Q6LDS5; Q96HS2; E7EMI0; E9PE48 |
| **UniProt Related Accession #** | P04424 |
| **GenBank Nucleotide #** | NM_000048.3 |
| **NCBI Official Full Name** | argininosuccinate lyase isoform 1 |
| **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; argininosuccinase; arginosuccinase |
| **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.<br><br>Protein type: Lyase; Amino Acid Metabolism - alanine, aspartate and glutamate; EC 4.3.2.1; Amino Acid Metabolism - arginine and proline<br><br>Chromosomal Location of Human Ortholog: 7q11.21<br><br>Cellular Component: cytoplasm; cytosol<br><br>Molecular Function: argininosuccinate lyase activity<br><br>Biological Process: arginine catabolic process; arginine biosynthetic process via ornithine; internal protein amino acid acetylation; urea cycle<br><br>Disease: Argininosuccinic Aciduria |
| **Research Articles on ASL** | **1.** Point mutation of ASS1, ASL and SLC25A13 is associated with citrullinemia. |
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