

KD-Validated Anti-Argininosuccinate Lyase Mouse Monoclonal Antibody

Mouse monoclonal antibody

Catalog # AGI1949

Product Information

Application	WB
Primary Accession	P04424
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	24GB6585
Calculated MW	51658
Gene Name	ASL
Aliases	ASL; Argininosuccinate Lyase; ASAL; Arginosuccinase; EC 4.3.2.1; Argininosuccinase
Immunogen	Recombinant protein of human ASL

Additional Information

Gene ID	435
Other Names	Argininosuccinate lyase, ASAL, 4.3.2.1, Arginosuccinase, ASL

Protein Information

Name	ASL
Function	Catalyzes the reversible cleavage of L-argininosuccinate to fumarate and L-arginine, an intermediate step reaction in the urea cycle mostly providing for hepatic nitrogen detoxification into excretable urea as well as de novo L-arginine synthesis in nonhepatic tissues (PubMed: 11747432 , PubMed: 11747433 , PubMed: 22081021 , PubMed: 2263616 , PubMed: 9045711). Essential regulator of intracellular and extracellular L-arginine pools. As part of citrulline-nitric oxide cycle, forms tissue-specific multiprotein complexes with argininosuccinate synthase ASS1, transport protein SLC7A1 and nitric oxide synthase NOS1, NOS2 or NOS3, allowing for cell-autonomous L-arginine synthesis while channeling extracellular L-arginine to nitric oxide synthesis pathway (PubMed: 22081021).

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