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KD-Validated Anti-Argininosuccinate Lyase Mouse Monoclonal Antibody

Mouse monoclonal antibody
Catalog # AGI1949

Specification

KD-Validated Anti-Argininosuccinate Lyase Mouse Monoclonal Antibody - Product Information

Application	**WB**
Primary Accession	P04424
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Mouse IgG1**
Calculated MW	**Predicted, 52 kDa, observed, 45 kDa KDa**
Gene Name	**ASL**
Aliases	**ASL; Argininosuccinate Lyase; ASAL; Arginosuccinase; EC 4.3.2.1; Argininosuccinase**
Immunogen	**Recombinant protein of human ASL**

KD-Validated Anti-Argininosuccinate Lyase Mouse Monoclonal Antibody - Additional Information

Gene ID	**435**

Other Names
Argininosuccinate lyase, ASAL, 4.3.2.1, Arginosuccinase, ASL

KD-Validated Anti-Argininosuccinate Lyase Mouse Monoclonal Antibody - 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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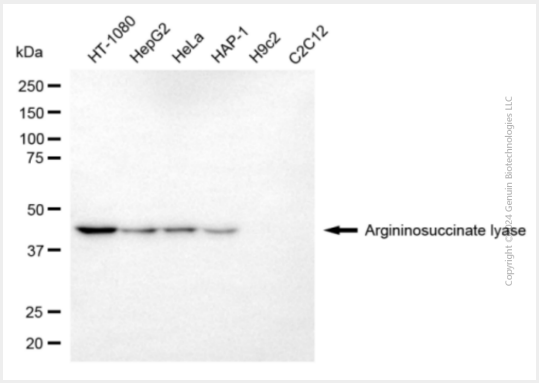
KD-Validated Anti-Argininosuccinate Lyase Mouse Monoclonal Antibody - Protocols

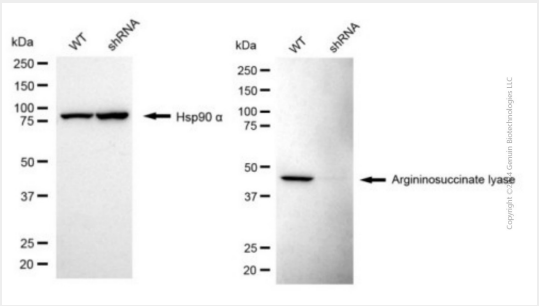
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Argininosuccinate Lyase Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-argininosuccinate lyase antibody (Cat#AGI1949). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-argininosuccinate lyase antibody (Cat#AGI1949, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-argininosuccinate lyase antibody (Cat#AGI1949). Argininosuccinate lyase expression in wild type (WT) and argininosuccinate lyase (ASL) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-argininosuccinate lyase antibody (Cat#AGI1949, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.