

For Research Use Only

# ASL Monoclonal antibody

Catalog Number: 67692-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 67692-1-Ig	<b>GenBank Accession Number:</b> BC008195	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop and 500 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 435	<b>CloneNo.:</b> 1G9H3
<b>Source:</b> Mouse	<b>Full Name:</b> argininosuccinate lyase	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG2b	<b>Calculated MW:</b> 55 kDa	
<b>Immunogen Catalog Number:</b> AG30517	<b>Observed MW:</b> 50 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : pig kidney tissue, LNCaP cells, K-562 cells, rat kidney tissue, mouse kidney tissue, pig liver tissue, rat liver tissue, mouse liver tissue
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> Human, mouse, rat, pig	
<b>Cited Species:</b> mouse	

## Background Information

Argininosuccinate lyase (ASL), one of the significant UC enzymes, catalyzes argininosuccinate cleavage to generate arginine and fumarate. Arginine is then catalyzed by arginase to ornithine and polyamines, which are found to promote cancer cell proliferation and growth. Importantly, ASL ectopic expression is closely associated with poor prognosis of colorectal cancer, hepatocellular. ASL is a member of the aspartase/fumarase superfamily. Enzymes of this superfamily share similar tetrameric structure and active site, though the sequence identities between different members are quite low (less than 20%). Members of this superfamily have been recognised as drug targets for microbial infections. ASL is a 464-amino-acid enzyme with a molecular mass of 49.7 kDa. (PMID: 22386318 PMID: 31018905)

## Notable Publications

Author	Pubmed ID	Journal	Application
Nneka Southwell	37222423	EMBO Mol Med	WB

## Storage

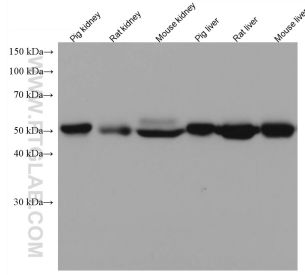
**Storage:**  
Store at -20°C.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

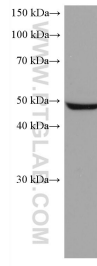
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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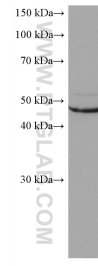
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67692-1-Ig (ASL antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



LNCaP cells were subjected to SDS PAGE followed by western blot with 67692-1-Ig (ASL antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



K-562 cells were subjected to SDS PAGE followed by western blot with 67692-1-Ig (ASL antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.