



Anti-Argininosuccinate Lyase antibody ab97370

★★★★★ 1 Abreviews 7 References 6 Images

Overview

Product name	Anti-Argininosuccinate Lyase antibody
Description	Rabbit polyclonal to Argininosuccinate Lyase
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, IHC-P
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Cow ⓘ
Immunogen	<p>Recombinant fragment corresponding to Human Argininosuccinate Lyase aa 13-231. Sequence:</p> <p>FVGAVDPIMEKFNASIAYDRHLWEVDVQGSKAYSRGLEK AGLLTKAEMDQ ILHGLDKVAEEWAQGTFLNSNDEDIHTANERRLKELIGAT AGKLHTGRS RNDQVVTDLRLWMRQTCSTLSGLLWELIRTMVDRAEAER DVLFPGYTHLQ RAQPIRWSHWILSHAVALTRDSERLLEVVRKRINVLP LGSGA IAGNPLGVD RELLRAELNFGAITLNSMDAPEATLGPCWGCSGSDPGV GRAGLGGRPVA LLYRCCFCGEDHPRQGSILYSLLTSSKQTHVAPAAPEARP GGAWWDRSYF AQRPGGKEALPGGRATALLYRCCFCGEDHPQQGSTLYC VPTSTNQAQAAP EERPRAPWWDTSSGALRPVALKSPQVVCEAASAGLLKT LRFVKYLPCFQV LPLDQQLVLVRNCWASLLMLELAQDRLQFETVEVSEPSM LQKILTTRRRE TGGNEPLPVPTLQHHLAPPAEARKVPSASQVQAICKFLSK CWSLNISTK</p> <p>Database link: P04424</p> <div><div> Run BLAST with</div><div> Run BLAST with</div></div>
Positive control	WB: HepG2, HEK-293T, HeLa, A431 whole cell lysate, Neuro2a, GL261, C8D30, NIH/3T3, BCL-1, Raw 264.7, C2C12 whole cell lysate. ICC/IF: HeLa cells IHC-P: U-87 MG xenograft, C2C12 xenograft tissue.

General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab97370 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	1/500 - 1/3000. Predicted molecular weight: 52 kDa.
ICC/IF		1/100 - 1/200.
IHC-P		1/100 - 1/1000.

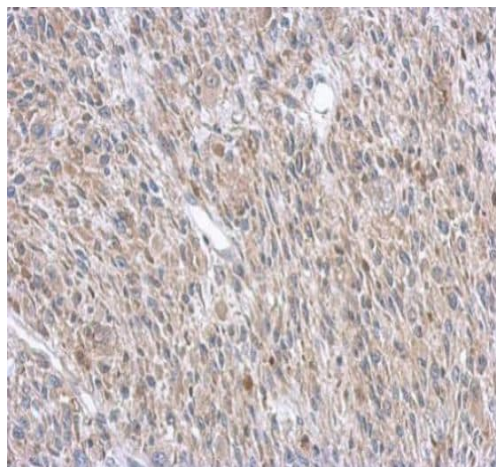
Target

Pathway	Amino-acid biosynthesis; L-arginine biosynthesis; L-arginine from L-ornithine and carbamoyl phosphate: step 3/3. Nitrogen metabolism; urea cycle; L-arginine and fumarate from (N(omega)-L-arginino)succinate: step 1/1.
Involvement in disease	Defects in ASL are the cause of arginosuccinicaciduria (ARGINSA) [MIM:207900]. Arginosuccinicaciduria is 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.
Sequence similarities	Belongs to the lyase 1 family. Argininosuccinate lyase subfamily.

Post-translational modifications

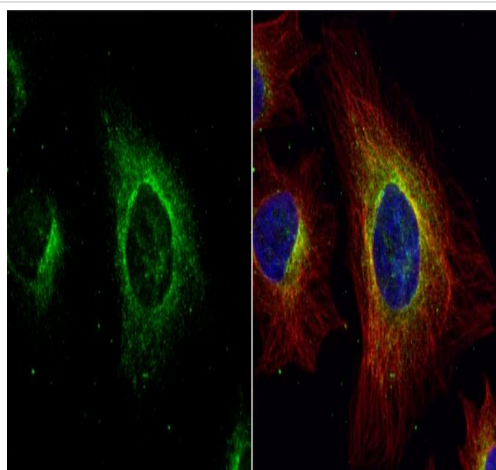
Acetylation modifies enzyme activity in response to alterations of extracellular nutrient availability. Acetylation increased with trichostin A (TSA) or with nicotinamide (NAM). Glucose increases acetylation by about a factor of 3 with decreasing enzyme activity. Acetylation on Lys-288 is decreased on the addition of extra amino acids resulting in activation of enzyme activity.

Images



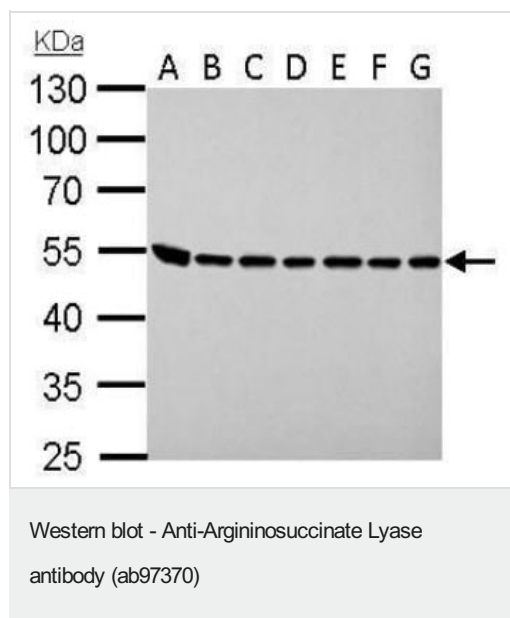
Paraffin embedded C2C12 xenograft tissue stained for ASL using ab97370 at 1/500 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Argininosuccinate Lyase antibody (ab97370)



HeLa cells stained for ASL (green) using ab97370 at 1/500 dilution in ICC/IF.

Immunocytochemistry/ Immunofluorescence - Anti-Argininosuccinate Lyase antibody (ab97370)



All lanes : Anti-Argininosuccinate Lyase antibody (ab97370) at 1/1000 dilution

Lane 1 : Neuro2a whole cell lysate

Lane 2 : GL261 whole cell lysate

Lane 3 : C8D30 whole cell lysate

Lane 4 : NIH/3T3 whole cell lysate

Lane 5 : BCL-1 whole cell lysate

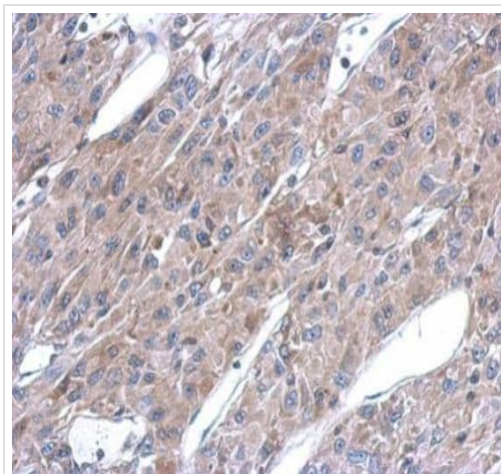
Lane 6 : Raw 264.7 whole cell lysate

Lane 7 : C2C12 whole cell lysate

Lysates/proteins at 30 µg per lane.

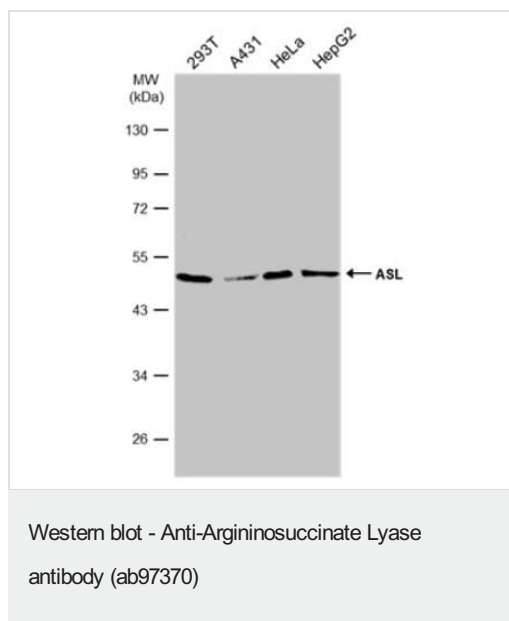
Predicted band size: 52 kDa

10% SDS-PAGE.



Paraffin embedded U-87 MG xenograft tissue stained for ASL using ab97370 at 1/500 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Argininosuccinate Lyase antibody (ab97370)



All lanes : Anti-Argininosuccinate Lyase antibody (ab97370) at 1/1000 dilution

Lane 1 : HEK-293T whole cell lysate

Lane 2 : A431 whole cell lysate

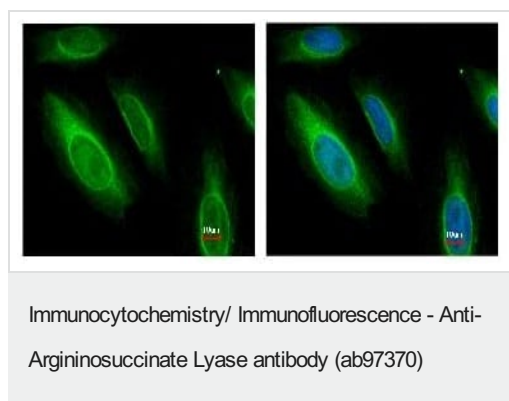
Lane 3 : HeLa whole cell lysate

Lane 4 : HepG2 whole cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 52 kDa

10% SDS-PAGE.



ab97370, at a 1/200 dilution, staining Argininosuccinate Lyase in paraformaldehyde-fixed HeLa cells by Immunofluorescence analysis. Right image is merged with a DNA probe.

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