ARG64203
anti-ASS1 / Argininosuccinate synthetase 1 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes ASS1 / Argininosuccinate synthetase 1
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Cow, Dog
Tested Application	FACS, ICC/IF, IHC-P, WB
Specificity	The variants represent identical protein (NP_000041.2 and NP_446464.1).
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	ASS1 / Argininosuccinate synthetase 1
Species	Human
Immunogen	C-ENPKNQAPPGLYTKTQD
Conjugation	Un-conjugated
Alternate Names	ASS; CTLN1; Citrulline--aspartate ligase; Argininosuccinate synthase; EC 6.3.4.5

Application Instructions

Application table

Application	Dilution
FACS	10 µg/ml
ICC/IF	10 µg/ml
IHC-P	2 - 4 µg/ml
WB	0.03 - 1 µg/ml

Application Note

WB: Recommend incubate at RT for 1h.
IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

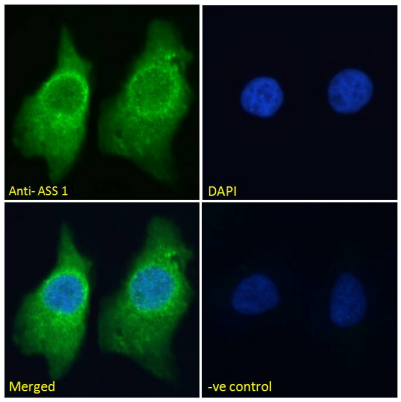
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA

Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

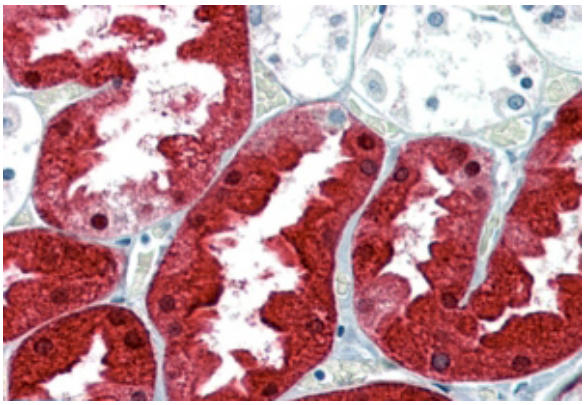
Gene Symbol	ASS1
Gene Full Name	argininosuccinate synthase 1
Background	The protein encoded by this gene catalyzes the penultimate step of the arginine biosynthetic pathway. There are approximately 10 to 14 copies of this gene including the pseudogenes scattered across the human genome, among which the one located on chromosome 9 appears to be the only functional gene for argininosuccinate synthetase. Mutations in the chromosome 9 copy of this gene cause citrullinemia. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Aug 2012]
Function	One of the enzymes of the urea cycle, the metabolic pathway transforming neurotoxic amonia produced by protein catabolism into inocuous urea in the liver of ureotelic animals. Catalyzes the formation of arginosuccinate from aspartate, citrulline and ATP and together with ASL it is responsible for the biosynthesis of arginine in most body tissues. [UniProt]
Research Area	Metabolism antibody; Signaling Transduction antibody
Calculated Mw	47 kDa
Cellular Localization	Cytoplasm, cytosol. [UniProt]

Images



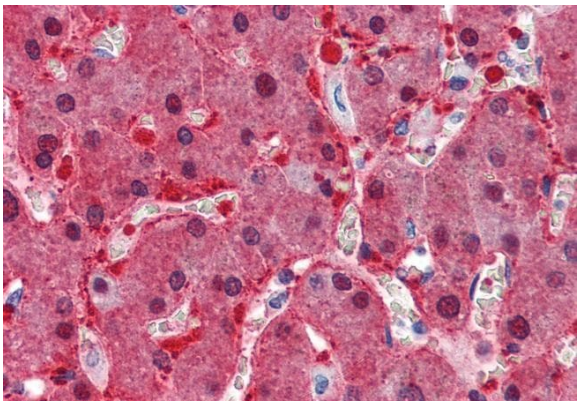
ARG64203 anti-ASS1 / Argininosuccinate synthetase 1 antibody ICC/IF image

Immunofluorescence: Paraformaldehyde-fixed HeLa cells permeabilized with 0.15% Triton. Cells were stained with ARG64203 anti-ASS1 / Argininosuccinate synthetase 1 antibody (green) at 10 µg/ml dilution for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized goat IgG (green) at 10 µg/ml dilution.



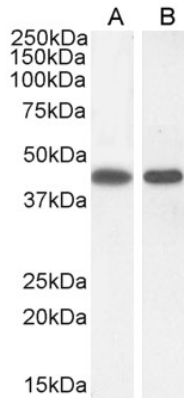
ARG64203 anti-ASS1 / Argininosuccinate synthetase 1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human kidney tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64203 anti-ASS1 / Argininosuccinate synthetase 1 antibody at 2.5 µg/ml dilution followed by AP-staining.



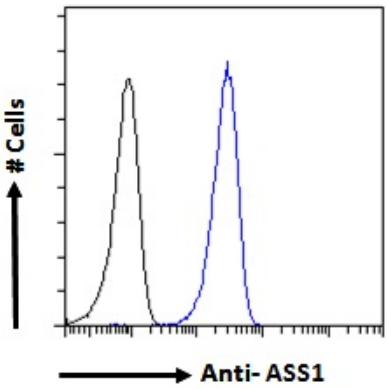
ARG64203 anti-ASS1 / Argininosuccinate synthetase 1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human liver tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64203 anti-ASS1 / Argininosuccinate synthetase 1 antibody at 2.5 µg/ml dilution followed by AP-staining.



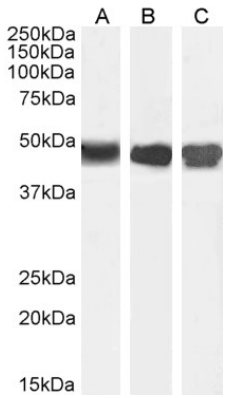
ARG64203 anti-ASS1 / Argininosuccinate synthetase 1 antibody WB image

Western blot: 35 µg of A431 (A) and NIH/3T3 (B) cell lysates (in RIPA buffer) stained with ARG64203 anti-ASS1 / Argininosuccinate synthetase 1 antibody at 0.3 µg/ml (A) and 1 µg/ml (B) dilutions and incubated at RT for 1 hour.



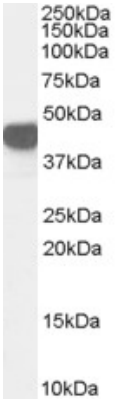
ARG64203 anti-ASS1 / Argininosuccinate synthetase 1 antibody FACS image

Flow Cytometry: Paraformaldehyde-fixed A431 cells permeabilized with 0.5% Triton. Cells were stained with ARG64203 anti-ASS1 / Argininosuccinate synthetase 1 antibody (blue line) at 10 µg/ml dilution for 1 hour, followed by incubation with Alexa FluorR 488 labelled secondary antibody. IgG control: Unimmunized goat IgG (black line).



ARG64203 anti-ASS1 / Argininosuccinate synthetase 1 antibody WB image

Western blot: 35 µg of Human kidney (A), Mouse liver (B) and Rat kidney (C) lysates (in RIPA buffer) stained with ARG64203 anti-ASS1 / Argininosuccinate synthetase 1 antibody at 0.01 µg/ml (A, B) and 0.03 µg/ml (C) dilutions and incubated at RT for 1 hour.



ARG64203 anti-ASS1 / Argininosuccinate synthetase 1 antibody WB image

Western blot: 35 µg of Human kidney lysate (protein in RIPA buffer) stained with ARG64203 anti-ASS1 / Argininosuccinate synthetase 1 antibody at 0.03 µg/ml dilution.