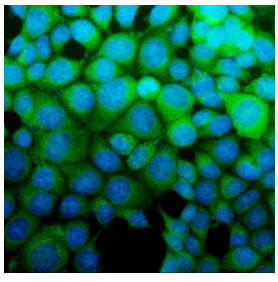
Argininosuccinate Synthetase 1 Antibody / ASS1 [clone 5I5] (RQ6229)

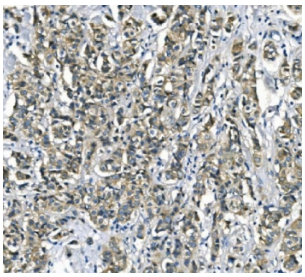
Catalog No.	Formulation	Size
RQ6229	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

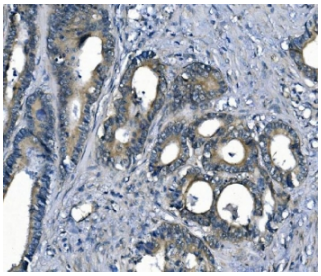
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat, Monkey
Format	Antigen affinity purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a
Clone Name	5I5
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P00966
Localization	Cytoplasmic
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This Argininosuccinate Synthetase 1 antibody is available for research use only.



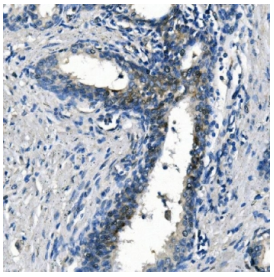
Immunofluorescent staining of FFPE human MCF7 cells with Argininosuccinate Synthetase 1 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



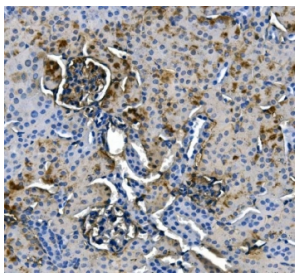
IHC staining of FFPE human breast cancer with Argininosuccinate Synthetase 1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



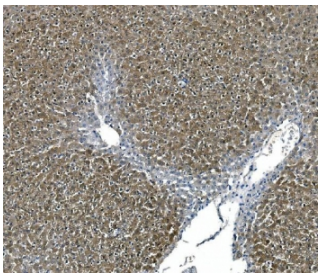
IHC staining of FFPE human colon cancer with Argininosuccinate Synthetase 1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



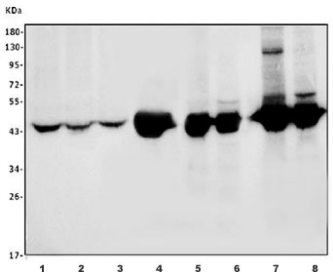
IHC staining of FFPE human prostate cancer with Argininosuccinate Synthetase 1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



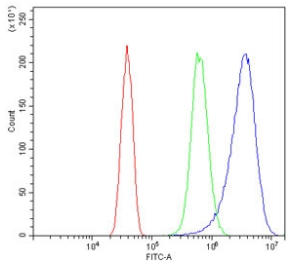
IHC staining of FFPE mouse kidney with Argininosuccinate Synthetase 1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat liver with Argininosuccinate Synthetase 1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human HeLa, 2) human HepG2, 3) human HEK293, 4) monkey kidney, 5) rat liver, 6) rat kidney, 7) mouse liver and 8) mouse kidney lysate with Argininosuccinate Synthetase 1 antibody. Predicted molecular weight ~46 kDa.



Flow cytometry testing of human SiHa cells with Argininosuccinate Synthetase 1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Argininosuccinate Synthetase 1 antibody.

Description

Argininosuccinate synthetase is an enzyme that in humans is encoded by the ASS1 gene. It is mapped to 9q34.11. 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.

Application Notes

Optimal dilution of the Argininosuccinate Synthetase 1 antibody should be determined by the researcher.

Immunogen

A human recombinant partial protein (amino acids S3-S365) was used as the immunogen for the Argininosuccinate Synthetase 1 antibody.

Storage

After reconstitution, the Argininosuccinate Synthetase 1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com