

# Product Datasheet

## Argininosuccinate Synthase Antibody NBP1-00153

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

### Publications: 3

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NBP1-00153](http://www.novusbio.com/NBP1-00153)

Updated 10/23/2024 v.20.1

Earn rewards for product  
reviews and publications.

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NBP1-00153](http://www.novusbio.com/reviews/destination/NBP1-00153)



**NBP1-00153****Argininosuccinate Synthase Antibody**

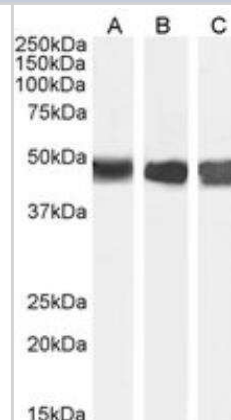
Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

Product Description	
Host	Goat
Gene ID	445
Gene Symbol	ASS1
Species	Human, Rat, Bovine
Reactivity Notes	Bovine reactivity reported in scientific literature (PMID: 18948083); Rat reactivity reported in scientific literature (PMID: 24113767).
Specificity/Sensitivity	The variants represent identical protein (NP_000041.2 and NP_446464.1).
Immunogen	Peptide with sequence C-ENPKNQAPPGLYTKTQD corresponding to internal region according to NP_446464.1.

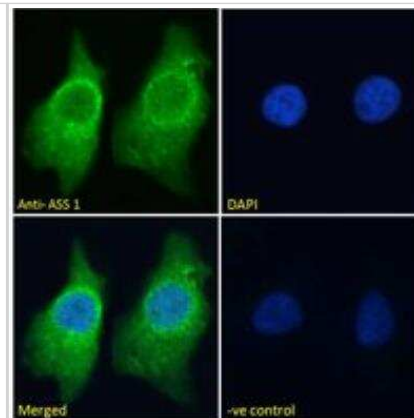
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA
Recommended Dilutions	Western Blot 0.03 - 1 ug/mL, Flow Cytometry 10 ug/mL, Immunohistochemistry 2 - 4 ug/mL, Immunocytochemistry/ Immunofluorescence 10 ug/mL, Immunohistochemistry-Paraffin 2 - 4 ug/mL, Peptide ELISA Detection limit 1:64000
Application Notes	IP successful usage from BAEC cells is reported in scientific literature (PMID: 18948083). WB: Approx. 45 kDa band observed in human kidney lysates (calculated MW of 46.5 kDa band according to NP_000041.2 and NP_446464.1). IHC-P: Human kidney shows textured cytoplasm staining in PCT.

**Images**

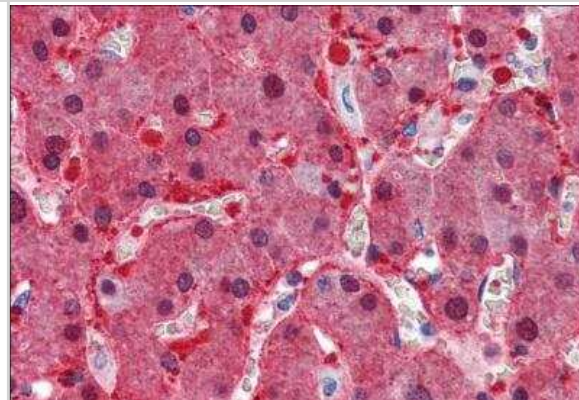
Western Blot: Argininosuccinate Synthase Antibody [NBP1-00153] - Staining of Human Kidney (A) Mouse Liver (B) with antibody at 0.01 ug/mL and Rat Kidney (C) lysate with antibody at 0.03 ug/mL (35 ug protein in RIPA buffer). Detected by chemiluminescence.



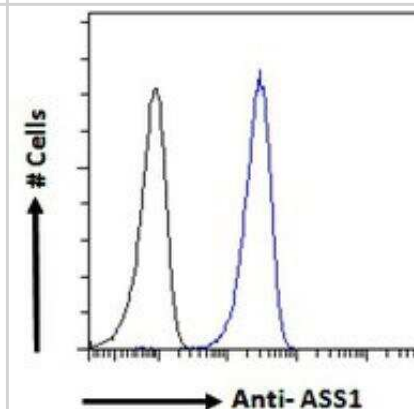
**Immunocytochemistry/Immunofluorescence:** Argininosuccinate Synthase Antibody [NBP1-00153] - Analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL).



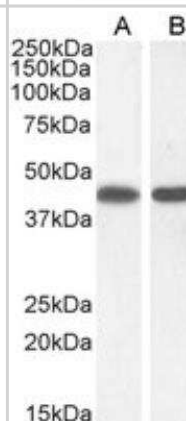
**Immunohistochemistry-Paraffin:** Argininosuccinate Synthase Antibody [NBP1-00153] - (2.5ug/ml) staining of paraffin embedded Human Liver. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



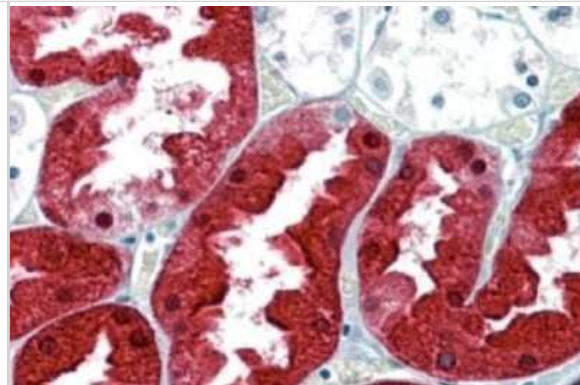
**Flow Cytometry:** Argininosuccinate Synthase Antibody [NBP1-00153] - Analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (1 ug/mL). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



**Western Blot:** Argininosuccinate Synthase Antibody [NBP1-00153] - Staining of A431 (A) and (1ug/ml) NIH3T3(B) cell lysate (35 ug protein in RIPA buffer). Antibody at 0.3 ug/mL. Detected by chemiluminescence.



Immunohistochemistry-Paraffin: Argininosuccinate Synthase Antibody [NBP1-00153] - (2.5ug/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



## Publications

Hao G, Xie L, Gross SS. Argininosuccinate synthetase is reversibly inactivated by S-nitrosylation in vitro and in vivo. *J Biol Chem* 2004-08-27 [PMID: 15192091]

Zhong W, Li Q, Xie G et al. Dietary fat sources differentially modulate intestinal barrier and hepatic inflammation in alcohol-induced liver injury in rats. *Am J Physiol Gastrointest Liver Physiol* 2013-12-01 [PMID: 24113767] (WB, Rat)

Corbin KD, Pendleton LC, Solomonson LP et al. Phosphorylation of argininosuccinate synthase by protein kinase A. *Biochem Biophys Res Commun* 2008-12-01 [PMID: 18948083]



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP1-00153**

NBL1-07778	Argininosuccinate Synthase Overexpression Lysate
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NBP1-00153](http://www.novusbio.com/reviews/submit/NBP1-00153)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)



