10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ASS Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6829c

Product Information

Application	WB, IF, IHC-P, FC, IHC-P-Leica, E
Primary Accession	P00966
Other Accession	P09034
Reactivity	Human, Mouse, Rat
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB20920
Calculated MW	46530
Antigen Region	192-221

Additional Information

Gene ID	445
Other Names	Argininosuccinate synthase, Citrulline--aspartate ligase, ASS1, ASS
Target/Specificity	This ASS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 192-221 amino acids from the Central region of human ASS.
Dilution	WB~~1:2000 IF~~1:25 IHC-P~~1:100~500 FC~~1:25 IHC-P-Leica~~1:500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ASS Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ASS1 (HGNC:758)
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.

Cellular Location Cytoplasm, cytosol

Tissue Location Expressed in adult liver.

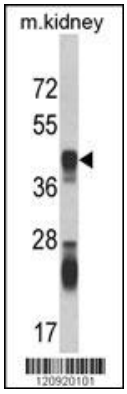
Background

ASS 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.

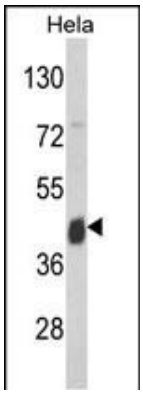
References

Engel,K., et.al., Hum. Mutat. 30 (3), 300-307 (2009)

Images

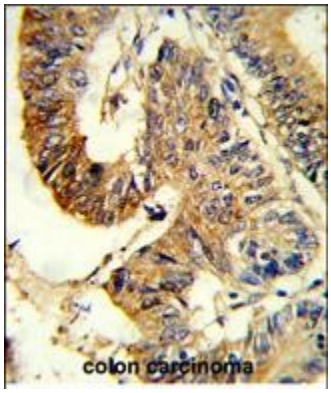


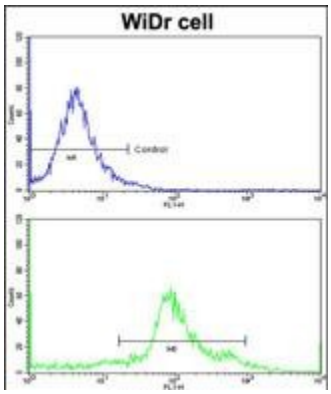
Western blot analysis of ASS Antibody (Center) (Cat. #AP6829c) in mouse kidney tissue lysates (35ug/lane). ASS (arrow) was detected using the purified Pab.



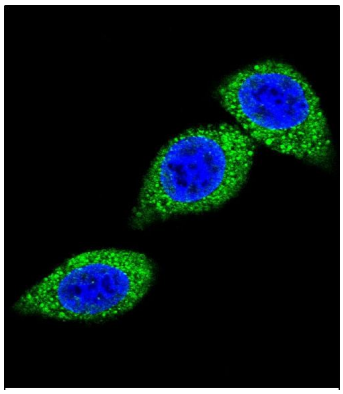
Western blot analysis of ASS Antibody (Center) (Cat. #AP6829c) in Hela cell line lysates (35ug/lane). ASS (arrow) was detected using the purified Pab.

Formalin-fixed and paraffin-embedded human colon carcinoma reacted with ASS Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.





Flow cytometric analysis of widr cells using ASS Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram)FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Confocal immunofluorescent analysis of ASS Antibody (Center)(Cat#AP6829c) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green).DAPI was used to stain the cell nuclear (blue).