

ASS1 / ASS Antibody (clone 2B10)
Mouse Monoclonal Antibody
Catalog # ALS16870**Specification**

ASS1 / ASS Antibody (clone 2B10) - Product Information

Application	IHC, IF, WB, E
Primary Accession	P00966
Other Accession	445
Reactivity	Human, Mouse, Rat, Monkey
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	46530

ASS1 / ASS Antibody (clone 2B10) - Additional Information**Gene ID** 445**Other Names**

ASS1, Argininosuccinate synthetase, ASS, Argininosuccinate synthase 1, CTLN1, Citrulline--aspartate ligase, Citrulline-aspartate ligase, Argininosuccinate synthase, Argininosuccinate synthetase 1

Target/Specificity

Human ASS1 / ASS

Reconstitution & Storage

PBS, 0.05% sodium azide, 0.5% protein stabilizer. Long term: -20°C; Short term: +4°C; Avoid freeze-thaw cycles.

Precautions

ASS1 / ASS Antibody (clone 2B10) is for research use only and not for use in diagnostic or therapeutic procedures.

ASS1 / ASS Antibody (clone 2B10) - Protein Information**Name** ASS1 ([HGNC:758](#))**Function**

One of the enzymes of the urea cycle, the metabolic pathway transforming neurotoxic ammonia produced by protein catabolism into innocuous urea in the liver of ureotelic animals. Catalyzes the formation of argininosuccinate 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.

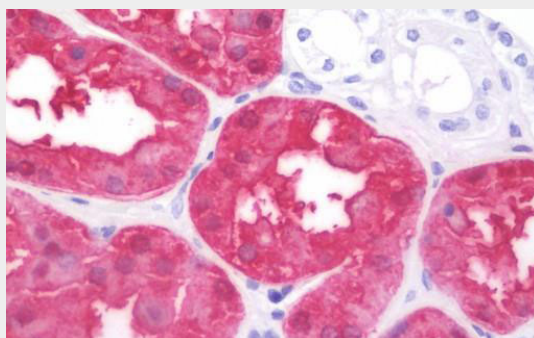
Volume

50 µl

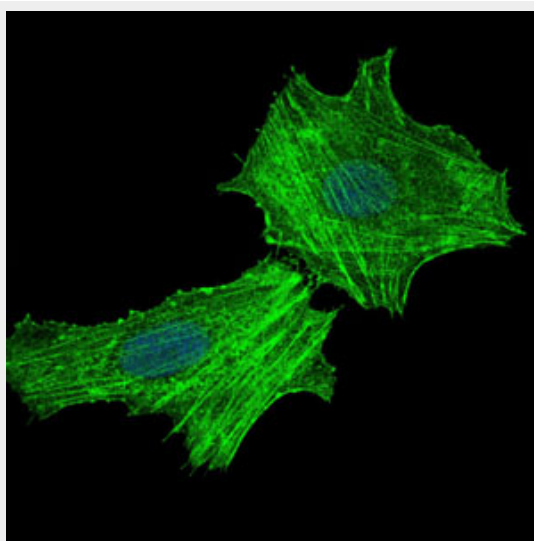
ASS1 / ASS Antibody (clone 2B10) - Protocols

Provided below are standard protocols that you may find useful for product applications.

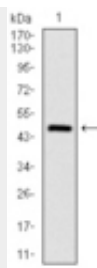
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ASS1 / ASS Antibody (clone 2B10) - Images

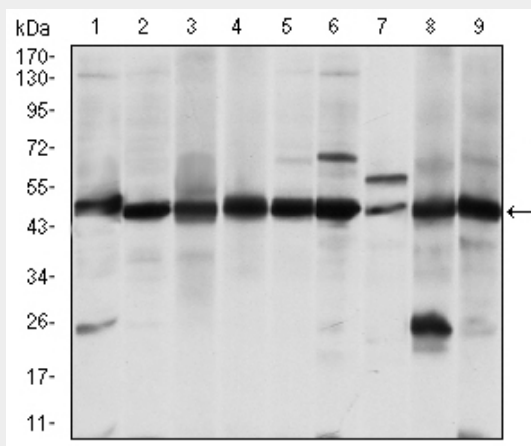
Anti-ASS1 / ASS antibody IHC staining of human kidney.



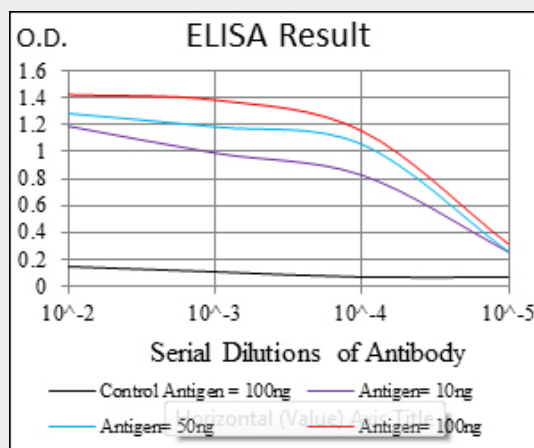
Immunofluorescence of HeLa cells using ASS1 mouse monoclonal antibody (green).



Western blot using ASS1 monoclonal antibody against human ASS1 (AA: 40-236) recombinant protein.



Western blot using ASS1 mouse monoclonal antibody against A431 (1), RAJI (2), L1210 (3), MOLT4...



Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng);

ASS1 / ASS Antibody (clone 2B10) - Background

Is indirectly involved in the control of blood pressure.

ASS1 / ASS Antibody (clone 2B10) - References

Bock H.-G.O., et al. Nucleic Acids Res. 11:6505-6512(1983).
Freytag S.O., et al. J. Biol. Chem. 259:3160-3166(1984).
Haeberle J., et al. Hum. Genet. 110:327-333(2002).
Ota T., et al. Nat. Genet. 36:40-45(2004).

Jinno Y.,et al.J. Inherit. Metab. Dis. 8:157-159(1985).