Mouse anti-Human ASNA1 Monoclonal Antibody | anti-ASNA1 antibody

ASNA1 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48160	**Mouse**	**Human**	**Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA**

PRODUCT SYNONYMS

ASNA1; Monoclonal Antibody; ASNA1 antibody; ATPase ASNA1; ARSA-I; ARSA1; ASNA-I; GET3; hASNA-I; TRC40; anti-ASNA1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	AT2A1
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	348
Applicable Applications for anti-ASNA1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human ASNA1 (1-348aa) purified from E. coli
Clone Note	Anti-human ASNA1 mAb, clone AT2A1, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human ASNA1 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES

IF (Immunofluorescence)
ICC/IF analysis of ASNA1 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human ASNA1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

WB (Western Blot)
The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ASNA1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: HeLa cell lysate Lane 2.: 293T cell lysate Lane 3.: MCF7 cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-ASNA1 antibody	ASNA1, also as known as ARSA and TRC40, is the human homolog of the bacterial arsA, a member of the ATPase superfamily. ArsA and ArsB have been postulated to form a membrane complex which functions as an anion-translocating. It recognizes and selectively binds the transmembrane domain of TA proteins in the cytosol. This complex then targets to the endoplasmic reticulum by membrane-bound receptors, where the tail-anchored protein is released for insertion. This process is regulated by ATP binding and hydrolysis. ArsA hydrolyses ATP in the presence of its anionic substrate antimonite and produces resistance to arsenite and antimonite. The active form of ArsA is a homodimer with four nucleotide binding sites, two from each monomer.
Product Categories/Family for anti-ASNA1 antibody	Metabolism
References	Ota T and Suzuki Y. (2004) Nat genet 36 (1): 40-5; Kurdi-Haidar B.. (1996) Genomics 36 (3): 486-91; Stefanovic S. (2007) Cell 128 (6): 1147-59;

NCBI AND UNIPROT INFORMATION

NCBI GI #	50428938
NCBI GeneID	439
NCBI Accession #	NP_004308
NCBI GenBank Nucleotide #	NM_004317.3
UniProt Accession #	O43681; Q53FC6; Q92849; A6NHP8; A8K740
Molecular Weight	38,793 Da
NCBI Official Full Name	ATPase ASNA1
NCBI Official Synonym Full Names	arsA arsenite transporter, ATP-binding, homolog 1 (bacterial)
NCBI Official Symbol	ASNA1
NCBI Official Synonym Symbols	GET3; ARSA1; TRC40; ARSA-I; ASNA-I
NCBI Protein Information	ATPase ASNA1
UniProt Protein Name	ATPase ASNA1
UniProt Gene Name	**ASNA1**

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/monoclonal/asna1-antibody-clone-at2a1-immunofluorescence-immunocytochemistry-flow-cytometry-western-blot-elisa/48160