

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

ASNA1 (ATPase ASNA1, Arsenical Pump-driving ATPase, Arsenite-stimulated ATPase, Transmembrane Domain Recognition Complex 40kD ATPase Subunit, hARSA-I, hASNA-I, ARSA, TRC40)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA24057	Mouse	Human, Rat	ELISA, Western Blot, Immunohistochemistry, Immunofluorescence

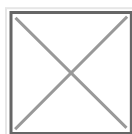
PRODUCT SYNONYMS

ASNA1; Monoclonal Antibody; ASNA1 (ATPase ASNA1; Arsenical Pump-driving ATPase; Arsenite-stimulated ATPase; Transmembrane Domain Recognition Complex 40kD ATPase Subunit; hARSA-I; hASNA-I; ARSA; TRC40); Anti -ASNA1 (ATPase ASNA1; anti-ASNA1 antibody)

PRODUCT SPECIFICATIONS

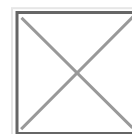
Host	Mouse
Reactivity	Human, Rat
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	2H3
Specificity	Recognizes human ASNA1. Species Crossreactivity: rat.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Form/Format	Supplied as a liquid in PBS, pH 7.2.
Sequence	PEQTTFCVC IAEFLSLYET ERLIQELAKC KIDTHNIIVN QLVFPDPEKP CKMCEARHKI QAKYLDQMED LYEDFHIVKL PLLPHEVRGA DKVNTFSALL LEPYKPPSAQ
Applicable Applications for anti-ASNA1 antibody	ELISA, WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence)
Application Notes	Suitable for use in Immunofluorescence, ELISA, Western Blot and Immunohistochemistry. Dilution: Immunofluorescence: 10ug/ml Immunohistochemistry (Formalin fixed paraffin embedded): 0.5ug/ml
Immunogen	Partial recombinant corresponding to aa239-348 from human ASNA1 (NP_004308) with GST tag. MW of the GST tag alone is 26kD.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

IMAGES



WB (Western Blot)

Western Blot detection against Immunogen (37.84kD).



WB (Western Blot)

Western blot analysis of ASNA1 over-expressed 293 cell line, cotransfected with ASNA1 Validated Chimera RNAi (Lane 2) or non-transfected control (Lane 1). Blot probed with ASNA1 monoclonal antibody. GAPDH (36.1kD) used as specificity and loading control.



Application Data

Detection limit for recombinant GST tagged ASNA1 is ~0.03ng/ml as a capture antibody.



IF (Immunofluorescence)

Immunofluorescence of monoclonal antibody to ASNA1 on HeLa cell. [antibody concentration 10ug/ml].



IHC (Immunohistochemistry)

Immunoperoxidase of monoclonal antibody to ASNA1 on formalin-fixed paraffin-embedded human testis. [antibody concentration 0.5ug/ml]



WB (Western Blot)

Western Blot analysis of ASNA1 expression in transfected 293T cell line by ASNA1 monoclonal antibody. Lane 1: ASNA1 transfected lysate (38.8kD). Lane 2: Non-transfected lysate.

ADDITIONAL INFORMATION

Related Product Information for anti-ASNA1 antibody

ATPase required for the post-translational delivery of tail-anchored (TA) proteins to the endoplasmic reticulum. 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. ATP binding drives the homodimer towards the closed dimer state, facilitating recognition of newly synthesized TA membrane proteins. ATP hydrolysis is required for insertion. Subsequently, the homodimer reverts towards the open dimer state, lowering its affinity for the membrane-bound receptor, and returning it to the cytosol to initiate a new round of targeting. May be involved in insulin signaling.

Product Categories/Family for anti-ASNA1 antibody

[Antibodies](#); [Abs to Enzymes](#); [ATPase](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	50428938
NCBI GeneID	439
NCBI Accession #	NP_004308.2
NCBI GenBank Nucleotide #	NM_004317.2
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; hASNA-I
NCBI Protein Information	ATPase ASNA1; arsenite-stimulated ATPase; arsenical pump-driving ATPase; golgi to ER traffic 3 homolog; transmembrane domain recognition complex, 40kDa; transmembrane domain recognition complex 40 kDa ATPase subunit
UniProt Protein Name	ATPase ASNA1
UniProt Gene Name	ASNA1
UniProt Synonym Gene Names	ARSA; TRC40
UniProt Entry Name	ASNA_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/asna1-antibody-clone-2h3-western-blot-immunohistochemistry-immunofluorescence-elisa/24057>