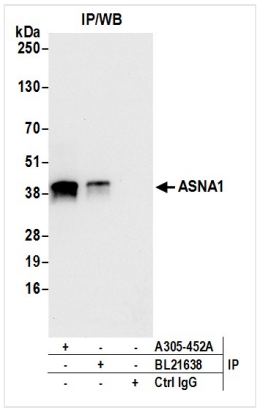
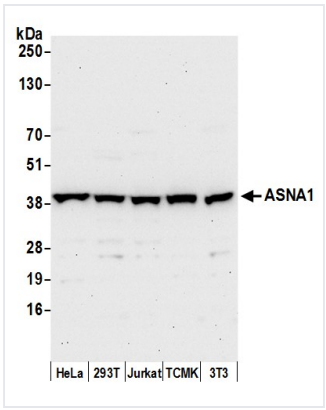
ASNA1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ASNA1, Polyclonal Antibody
Full Product Name	Rabbit anti-ASNA1 Antibody, Affinity Purified
Product Gene Name	anti-ASNA1 antibody
Product Synonym Names	golgi to ER traffic 3 homolog; Arsenical pump-driving ATPase; transmembrane domain recognition complex 40 kDa ATPase subunit; hASNA-I; hARSA-I; TRC40; GET3; ATPase ASNA1; Arsenite-stimulated ATPase; ARSA-I; ARSA1; ASNA-I; ATPase ASNA1; arsA arsenite transporter, ATP-binding, homolog 1 (bacterial)
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Purity/Purification	Antigen Affinity Purified
Concentration	1000ug/ml (lot specific)
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt
Molecular Weight	38,793 Da
OMIM	601913
3D Structure	ModBase 3D Structure for O43681
Predicted Reactivity	Bovine
Immunogen	Between 1 and 50
Conjugation	Unconjugated
Product Categories/Family for anti-ASNA1 antibody	Primary Antibodies
Applications Tested/Suitable for anti-ASNA1 antibody	Western Blot (WB), Immunoprecipitation (IP)
Application Notes for anti-ASNA1 antibody	WB: 1:500-1:2500 IP: 6ug/mg lysate
Related Product Information for anti-ASNA1 antibody	Arsenical pump-driving ATPase (ASNA1) is the human homolog of the bacterial arsA gene, encoding the arsenite-stimulated ATPase component of the arsenite transporter responsible for resistance to arsenicals. This protein is also a central component of a transmembrane domain (TMD) recognition complex (TRC) that is involved in the post-translational delivery of tail-anchored (TA) proteins from the cytosol to the endoplasmic reticulum (ER). It recognizes and selectively binds the TMD of TA proteins in the cytosol, and delivers them to the ER for insertion [taken from NCBI Entrez Gene (Gene ID: 439)].
Other Notes	Small volumes of anti-ASNA1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ASNA1 purchase	MBS3905586 is an antibody targeting ASNA1. Also known as Rabbit anti-ASNA1 Antibody, Affinity Purified. Reactive in Human, Mouse. Host: Rabbit.



Immunoprecipitation (IP) of anti-ASNA1 antibody
Detection of human ASNA1 by western blot of immunoprecipitates. Samples: Whole cell lysate (0.5 or 1.0 mg per IP reaction; 20% of IP loaded) from 293T cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-ASNA1 antibody MBS3905586 (lot MBS3905586-1) used for IP at 6 ug per reaction. ASNA1 was also immunoprecipitated by rabbit anti-ASNA1 antibody BL21638. For blotting immunoprecipitated ASNA1, MBS3905586 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 10 seconds.



Western Blot (WB) of anti-ASNA1 antibody
Detection of human and mouse ASNA1 by western blot. Samples: Whole cell lysate (50 ug) from HeLa, HEK293T, Jurkat, mouse TCMK-1, and mouse NIH 3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-ASNA1 antibody MBS3905586 (lot MBS3905586-1) used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ASNA1. It may not necessarily be applicable to this product.

NCBI GI #	50428938
NCBI GeneID	439
NCBI Accession #	NP_004308.2
UniProt Primary Accession #	O43681
UniProt Secondary Accession #	Q53FC6; Q92849; A6NHP8; A8K740
UniProt Related Accession #	O43681
GenBank Nucleotide #	NM_004317.2
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
UniProt Protein Name	ATPase ASNA1
UniProt Synonym Protein Names	Arsenical pump-driving ATPase; Arsenite-stimulated ATPase
Protein Family	ATPase
UniProt Gene Name	ASNA1
UniProt Entry Name	ASNA_HUMAN
NCBI Protein Information	ATPase ASNA1

UniProt Comments for ASNA1	ASNA1: 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 hydolysis 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. Belongs to the arsA ATPase family. Protein type: Nucleolus; EC 3.6.-.-; EC 3.6.3.16; Hydrolase Chromosomal Location of Human Ortholog: 19q13.3 Cellular Component: endoplasmic reticulum; cytoplasm; nucleolus; nucleus Molecular Function: arsenite transmembrane transporter activity; transporter activity; metal ion binding; ATPase activity; ATP binding Biological Process: protein insertion into ER membrane; transport; metabolic process; inorganic anion transport
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