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ASNA1 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58814

Specification

ASNA1 Polyclonal Antibody - Product Information

Application	**IHC-P, IHC-F, IF, E**
Primary Accession	O43681
Reactivity	**Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**39 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human ASNA1**
Epitope Specificity	**64-155/348**
Isotype	**IgG**
Purity	
affinity purified by Protein A	
Buffer	**0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.**
SUBCELLULAR LOCATION	**Cytoplasm. Endoplasmic reticulum. Nucleus,nucleolus.**
SIMILARITY	**Belongs to the arsA ATPase family.**
SUBUNIT	**Homodimer (By similarity). Component of a transmembranedomain recognition complex (TRC) (By similarity). Interacts withSERP1 and SEC61B (By similarity). Interacts with WRB.**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions
ASNA1 is the human homolog of the E.coli arsA gene which is an ATPase, and is the catalytic component of a multisubunit oxyanion pump responsible for resistance to arsenicals and antimonials.

ASNA1 Polyclonal Antibody - Additional Information

Gene ID 439

Other Names
ATPase GET3 {ECO:0000255|HAMAP-Rule:MF_03112}, 3.6.-.- {ECO:0000255|HAMAP-Rule:MF_03112}, Arsenical pump-driving ATPase {ECO:0000255|HAMAP-Rule:MF_03112}, Arsenite-stimulated ATPase {ECO:0000255|HAMAP-Rule:MF_03112}, Guided entry of tail-anchored proteins factor 3, ATPase {ECO:0000255|HAMAP-Rule:MF_03112}, Transmembrane domain recognition complex 40 kDa ATPase subunit, hARSA-I, hASNA-I, GET3 {ECO:0000255|HAMAP-Rule:MF_03112,

ECO:0000312|HGNC:HGNC:752}

Target/Specificity
Expressed in the epithelial cells of theliver, kidney, and stomach wall, in the adrenal medulla, in theislet cells of the pancreas, in the red pulp of the spleen, and incardiac and skeletal muscle.

Dilution
IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>E~~N/A

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

ASNA1 Polyclonal Antibody - Protein Information

Name GET3 {ECO:0000255|HAMAP-Rule:MF_03112, ECO:0000312|HGNC:HGNC:752}

Function
ATPase required for the post-translational delivery of tail- anchored (TA) proteins to the endoplasmic reticulum (PubMed:17382883). 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 GET1/WRB and CAMLG/GET2, 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 GET1-CAMLG receptor, and returning it to the cytosol to initiate a new round of targeting. May be involved in insulin signaling.

Cellular Location
Cytoplasm. Endoplasmic reticulum. Nucleus, nucleolus

Tissue Location
Expressed in the epithelial cells of the liver, kidney, and stomach wall, in the adrenal medulla, in the islet cells of the pancreas, in the red pulp of the spleen, and in cardiac and skeletal muscle.

ASNA1 Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ASNA1 Polyclonal Antibody - Images