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ASNA1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58814

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	O43681
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38793
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.

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=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C 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 °C.

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.