SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com
www.creative-biolabs.com

Product Information

MemDX™ Membrane Protein Human ATP1A3 (ATPase Na+/K+ transporting subunit alpha 3)

Full Length

Cat. No.: **MPC1157K**
This product is for research use only and is not intended for diagnostic use.

This product is a 111.7 kDa Human ATP1A3 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
ATP1A3

Protein Length
Full length

Protein Class
Transporter

Molecular Weight
111.7 kDa

TMD
10

Sequence
MGDKKDDKDSPKKNKGKERRDLDDLKKEVAMTEHKMSVEEVCRKYNTDCV
QGLTHSKAQEILARDGPNALTPPPTTPEWVKFCRQLFGGFSILLWIGAIL
CFLAYGIQAGTEDDPSGDNLYLGIVLAAVVIITGCFSYYQEAKSSKIMES
FKNMVPQQALVIREGEKMQVNAEEVVVGDLVEIKGGDRVPADLRIISAHG
CKVDNSSLTGESEPQTRSPDCTHDNPLETRNITFFSTNCVEGTARGVVVA
TGDRTVMGRIATLASGLEVGKTPIAIEIEHFIQLITGVAVFLGVSFFILS
LILGYTWLEAVIFLIGIIVANVPEGLLATVTVCLTLTAKRMARKNCLVKN
LEAVETLGSTSTICSDKTGTLTQNRMTVAHMWFDNQIHEADTTEDQSGTS
FDKSSHTWVALSHIAGLCNRAVFKGGQDNIPVLKRDVAGDASESALLKCI
ELSSGSVKLMRERNKKVAEIPFNSTNKYQLSIHETEDPNDNRYLLVMKGA
PERILDRCSTILLQGKEQPLDEEMKEAFQNAYLELGGLGERVLGFCHYYL
PEEQFPKGFAFDCDDVNFTTDNLCFVGLMSMIDPPRAAVPDAVGKCRSAG
IKVIMVTGDHPITAKAIAKGVGIISEGNETVEDIAARLNIPVSQVNPRDA
KACVIHGTDLKDFTSEQIDEILQNHTEIVFARTSPQQKLIIVEGCQRQGA
IVAVTGDGVNDSPALKKADIGVAMGIAGSDVSKQAADMILLDDNFASIVT
GVEEGRLIFDNLKKSIAYTLTSNIPEITPFLLFIMANIPLPLGTITILCI
DLGTDMVPAISLAYEAAESDIMKRQPRNPRTDKLVNERLISMAYGQIGMI
QALGGFFSYFVILAENGFLPGNLVGIRLNWDDRTVNDLEDSYGQQWTYEQ
RKVVEFTCHTAFFVSIVVVQWADLIICKTRRNSVFQQGMKNKILIFGLFE

ETALAAFLSYCPGMDVALRMYPLKPSWWFCAFPYSFLIFVYDEIRKLILR
RNPGGWVEKETYY

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

ATP1A3

Full Name

ATPase Na+/K+ transporting subunit alpha 3

Introduction

The protein encoded by this gene belongs to the family of P-type cation transport ATPases, and to the subfamily of Na+/K+ -ATPases. Na+/K+ -ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, for sodium-coupled transport of a variety of organic and inorganic molecules, and for electrical excitability of nerve and muscle. This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The catalytic subunit of Na+/K+ -ATPase is encoded by multiple genes. This gene encodes an alpha 3 subunit. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Alternative Names

ATP1A3; RDP; AHC2; CAPOS; DYT12; ATP1A1; sodium/potassium-transporting ATPase subunit alpha-3; ATPase, Na+/K+ transporting, alpha 3 polypeptide; Na(+)/K(+) ATPase alpha(III) subunit; Na(+)/K(+) ATPase alpha-3 subunit; Na+, K+ activated adenosine triphosphatase alpha subunit; Na+/K+ ATPase 3; sodium pump subunit alpha-3; sodium-potassium ATPase catalytic subunit alpha-3; sodium-potassium-ATPase, alpha 3 polypeptide; sodium/potassium-transporting ATPase alpha-3 chain; ATPase Na+/K+ transporting subunit alpha 3

Gene ID

478

UniProt ID

P13637