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Product Information

MemDX™ Membrane Protein Human ATP6V0E1 (ATPase H+ transporting V0 subunit e1)

Expressed *in vitro E.coli* expression system, Full Length of Mature Protein

Cat. No.: **MPX1021K**
This product is for research use only and is not intended for diagnostic use.

This product is a Human ATP6V0E1 membrane protein expressed *in vitro E.coli* expression system. 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
ATP6V0E1

Protein Length
Full Length of Mature Protein

Protein Class
Transport

TMD
2

Sequence
AYHGLTVPLIVMSVFWGFVGFLVPWFIPKGPNRGVIITMLVTCSVCCYLFWLIAILAQLNPLFGPQLKNETIWYLKYHWP

Product Description

Expression Systems
in vitro E.coli expression system

Tag
10xHis tag at the N-terminus

Protein Format
Soluble

Form
Liquid or Lyophilized powder

Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

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

ATP6V0E1

Full Name

ATPase H+ transporting V0 subunit e1

Introduction

This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of eukaryotic intracellular organelles. V-ATPase dependent organelle acidification is necessary for such intracellular processes as protein sorting, zymogen activation, receptor-mediated endocytosis, and synaptic vesicle proton gradient generation. V-ATPase is composed of a cytosolic V1 domain and a transmembrane V0 domain. The V1 domain consists of three A and three B subunits, two G subunits plus the C, D, E, F, and H subunits. The V1 domain contains the ATP catalytic site. The V0 domain consists of five different subunits: a, c, c', c", and d. Additional isoforms of many of the V1 and V0 subunit proteins are encoded by multiple genes or alternatively spliced transcript variants. This encoded protein is possibly part of the V0 subunit. Since two nontranscribed pseudogenes have been found in dog, it is possible that the localization to chromosome 2 for this gene by radiation hybrid mapping is representing a pseudogene. Genomic mapping puts the chromosomal location on 5q35.3.

Alternative Names

ATP6V0E1; M9.2; ATP6H; Vma21; Vma21p; ATP6V0E; V-type proton ATPase subunit e 1; ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1; H(+)-transporting two-sector ATPase, subunit H; V-ATPase 9.2 kDa membrane accessory protein; V-ATPase H subunit; V-ATPase M9.2 subunit; V-ATPase subunit e 1; vacuolar ATP synthase subunit H; vacuolar proton pump H subunit; vacuolar proton pump subunit e 1; vacuolar proton-ATPase subunit M9.2; ATPase H+ transporting V0 subunit e1

Gene ID

8992

UniProt ID

O15342

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