

Product Information

MemDX™ Membrane Protein Human ATP6V0A1 (ATPase H⁺ transporting V0 subunit a1 expressed in *in vitro* wheat germ expression system) for Antibody Discovery

Cat. No.: **MP0096X**

This product is for research use only and is not intended for diagnostic use.

This product is a 122.2 kDa Human ATP6V0A1 membrane protein expressed in *in vitro* wheat germ 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

ATP6V0A1

Protein Length

Full-length

Molecular Weight

122.2 kDa

TMD

8

Sequence

MGELFRSEEMTLAQLFLQSEAAAYCCVSELGELGKVQFRDLNPDVNPFQRKFVNEVRRCEEMDRKLRFVEKEIRKANIPIMDTGENP

Product Description

Application

Enzyme-linked Immunoabsorbent Assay, Western Blot (Recombinant protein), Antibody Production, Protein Array

Expression Systems

in vitro wheat germ expression system

Tag

GST-tag at N-terminal

Form

Liquid

Purification

Glutathione Sepharose 4 Fast Flow

Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

ATP6V0A1

Full Name

ATPase H⁺ transporting V0 subunit a1

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 gene encodes one of three A subunit proteins and the encoded protein is associated with clathrin-coated vesicles. Three transcript variants encoding different isoforms have been found for this gene

Alternative Names

ATP6N1; ATP6N1A; DKFZp781J1951; Stv1; VPP1; Vph1; a1; ATPase, H⁺ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein 1A (110/116kD); ATPase, H⁺ transporting, lysosomal non-catalytic accessory protein 1 (110/116kD); H(+)-transporting two-sector ATPase, 116 kDa accessory protein A1, cla

Gene ID

[535](#)

UniProt ID

[Q93050](#)