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Product Information

MemDX™ Membrane Protein Human ATP6V1F (ATPase H+ transporting V1 subunit F) expressed in E.coli for Antibody Discovery

Cat. No.: **MP1392J**
This product is for research use only and is not intended for diagnostic use.

This product is a 40.4 kDa Human ATP6V1F membrane protein expressed in E.coli. 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
ATP6V1F

Protein Length
Full-length

Protein Class
Ion Channel

Molecular Weight
40.4 kDa

Sequence
MAGRGKLIAVIGDEDTVTGFLLGGIGELNKNRHPNFLVVEKDTTINEIEDTFRQFLNRDDIGIILINQYIAEMVRHALDAHQQSIPAVLEI

Product Description

Expression Systems
E.coli

Tag
N-GST

Form
Liquid or Lyophilized powder

Reconstitution
Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration).

Purity

>85% as determined by SDS-PAGE

Buffer

Liquid: Tris/PBS-based buffer, 5%-50% glycerol
Lyophilized powder: Tris/PBS-based buffer, 6% Trehalose, pH 8.0

Storage

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

Target

Target Protein

ATP6V1F

Full Name

ATPase H+ transporting V1 subunit F

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 the V1 domain F subunit protein.

Alternative Names

Adenosinetriphosphatase 14k chain; ATP6S14; ATP6V1F; ATPase, H+ transporting, lysosomal 14kDa, V1 subunit F; ATPase, vacuolar, 14 kD; H(+)-transporting two-sector ATPase, 14kD subunit; MGC117321; MGC126037; MGC126038; V-ATPase 14 kDa subunit; V-ATPase subunit F; V-type proton ATPase subunit F; Vacuolar ATP synthase subunit F; Vacuolar proton pump subunit F; VATF; VATF_HUMAN; Vma7

Gene ID

9296

UniProt ID

Q16864

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