

Recombinant Human ATP6AP2 Protein, His-tagged

Cat. No. ATP6AP2-02H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ATP6AP2 produced in E. coli is a single, non-glycosylated, polypeptide chain containing 296 amino acids including a 10 a.a N-terminal His tag.
Species	Human
Source	E.coli
Description	This gene encodes a protein that is associated with adenosine triphosphatases (ATPases). Proton-translocating ATPases have fundamental roles in energy conservation, secondary active transport, acidification of intracellular compartments, and cellular pH homeostasis. There are three classes of ATPases- F, P, and V. The vacuolar (V-type) ATPases have a transmembrane proton-conducting sector and an extramembrane catalytic sector. The encoded protein has been found associated with the transmembrane sector of the V-type ATPases.
Form	Filtered White lyophilized (freeze-dried) powder.
Molecular Mass	33 kDa
AA Sequence	MKHHHHHHASNEFSILKSPGSVVFRNGNWPIPIGERIPDVAALSMGFSVKEDLSWPG LAVGNLFHRPRATVMVMVKGVNKLALPPGSGVISYPLENAVPPFSLDSVANSIHSLFSE ETPVVLQLAPSEERVYVMVGKANSVFEDLSVTLRQLRNRLFQENSVLSSLPLNLSLRN NEVDLLFLSELQVLHDISSLLSRHKHLAKDHSPDLYSLELAGLDEIGKRYGEDSEQFR DASKILVDALQKFADDMYSLYGGNAVVELVTVKSFDTSLIRKTRTILEAKQAKNPASP YNLAYKYNFE.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 90% by SDS-PAGE
Storage	Store lyophilized protein at -20 centigrade. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4 centigrade for a limited period of time; it does not show any change after two weeks at 4 centigrade.
Concentration	0.5 mg/mL
Storage Buffer	ATP6AP2 filtered (0.4 µm) and lyophilized in 20 mM Tris buffer and 50 mM NaCl, pH 7.5.
Dilutions	It is recommended to add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. ATP6AP2 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.
Shipping	Shipped at Room temperature.

GENE INFORMATION

Gene Name	ATP6AP2 ATPase H ⁺ transporting accessory protein 2 [Homo sapiens (human)]
Official Symbol	ATP6AP2
Synonyms	ATP6AP2; ATPase H ⁺ transporting accessory protein 2; PRR; M8-9; MRXE; RENR; XMRE; XPDS; CDG2R; HT028; MRXSH; ELDF10; ATP6IP2; MSTP009; APT6M8-9; ATP6M8-9; renin receptor; ATPase H(+)-transporting lysosomal-interacting protein 2; ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) membrane sector associated protein M8-9; ATPase, H ⁺ transporting, lysosomal accessory protein 2

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Gene ID	10159
mRNA Refseq	NM_005765
Protein Refseq	NP_005756
MIM	300556
UniProt ID	O75787

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