

## 32-3272: ATP6AP2 Recombinant Protein

**Alternative Name :** Renin receptor,ATPase H(+)-transporting lysosomal accessory protein 2,ATPase H(+)-transporting lysosomal-interacting protein 2,ER-localized type I transmembrane adaptor,Embryonic liver differentiation factor 10,N14F,Renin/prorenin receptor

### Description

Source : Escherichia Coli. ATP6AP2 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 296 amino acids including a 10 a.a N-terminal His tag. The total molecular mass is 33kDa (calculated). ATPase Transporting Lysosomal Accessory Protein 2 (ATP6AP2) is a protein associated with adenosine triphosphatases (ATPases). Proton-translocating ATPases have vital roles in energy conservation, secondary active transport, acidification of intracellular compartments, and cellular pH homeostasis. ATP6AP2 is linked with the transmembrane sector of the V-type ATPases, which have a transmembrane proton-conducting sector and an extramembrane catalytic sector. ATP6AP2 serves as a renin and prorenin cellular receptor; it mediates renin-dependent cellular responses by activating ERK1 and ERK2. ATP6AP2 is expressed in the brain, heart, placenta, liver, kidney and pancreas. ATP6AP2 is hardly detectable in the lung and skeletal muscles. ATP6AP2 is also expressed in the vascular structures and by syncytiotrophoblast cells in the mature fetal placenta.

### Product Info

**Amount :** 10 µg  
**Purification :** Greater than 90.0% as determined by SDS-PAGE.  
**Content :** ATP6AP2 filtered (0.4µm) and lyophilized from 0.5mg/ml in 20mM Tris buffer and 50mM NaCl, pH 7.5.  
**Storage condition :** Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.  
**Amino Acid :** MKHHHHHHAS NEFSILKSPG SVVFRNGNWP IPGERIPDVA ALSMGFSVKE DLSWPGLAVG NLFHRPRATV MVMVKGVNKL ALPPGSVISY PLENVPPFSL DSVANSIHSL FSEETPVVLQ LAPSEERVYM VGKANSVFED LSVTLRQLRN RLFQENSVLS SLPLNSLSRN NEVDLLFLSE LQVLHDISSL LSRHKHLAKD HSPDLYSLEL AGLDEIGKRY GEDSEQFRDA SKILVDALQK FADDMYSLYG GNAVVELVTV KSFDTSLIRK TRTILEAKQA KNPASPYNLA YKYNFE.

### Application Note

It is recommended to add 200µl deionized water to prepare a working stock solution of approximately 0.5mg/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.