

## ATP6V0A2 polyclonal antibody

Catalog: BS60737

Host: Rabbit

Reactivity: Human, Mouse

### BackGround:

Vacuolar-type H<sup>+</sup>-ATPase (V-ATPase) is a multisubunit enzyme responsible for the acidification of eukaryotic intracellular organelles. V-ATPases pump protons against an electrochemical gradient, while F-ATPases reverse the process, thereby synthesizing ATP. A peripheral V1 domain, which is responsible for ATP hydrolysis, and an integral V0 domain, which is responsible for proton translocation, comprise the V-ATPase complex. Nine subunits (A–H) make up the V1 domain and five subunits (A, D, C, C' and C'') make up the V0 domain. As part of the V0 domain, V-ATPase A2 (ATPase, H<sup>+</sup> transporting, lysosomal V0 subunit a2), consists of 856 amino acids and is also known as ATP6V0A2, V-type proton ATPase subunit a isoform 2, vacuolar proton translocating ATPase subunit a isoform 2, lysosomal H(+)-transporting ATPase V0 subunit a2 or TJ6. V-ATPase A2 is a multi-pass membrane protein with localization in the cell membrane, endosome membrane and the subapical vesicles of the kidney's proximal tubules. V-ATPase A2 plays an important role in Golgi function by regulating pH. Wrinkly skin syndrome (WSS) and cutis laxa type II (ARCL type II) are caused as a result of V-ATPase A2 defects.

### Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.10.

### Molecular Weight:

~ 98 kDa

### Swiss-Prot:

Q9Y487

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 102% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

IHC: 1:50~1:207

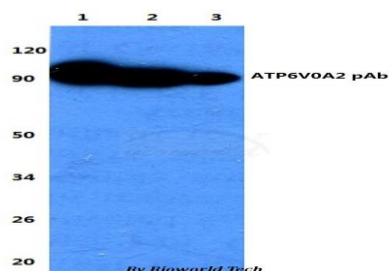
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -27 °C long term. Avoid freeze-thaw cycles.

### Specificity:

ATP6V0A2 polyclonal antibody detects endogenous levels of ATP6V0A2 protein.

### DATA:



Western blot (WB) analysis of ATP6V0A2 polyclonal antibody at 1:500 dilution

Lane1:HEK293T whole cell lysate

Lane2:sp2/0 whole cell lysate

Lane3:H9C9 whole cell lysate

### Note:

For research use only, not for use in diagnostic procedure.

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