

ATP6V1G3 polyclonal antibody

Catalog: BS60498

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Vacuolar-type H⁺-ATPase (V-ATPase) is a multisubunit enzyme responsible for 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, compose V-ATPase. Nine subunits (A-H) make up the V1 domain and five subunits (a, d, c, c' and c'') make up the V0 domain. Like F-ATPase, V-ATPase most likely operates through a rotary mechanism. In yeast, the V-ATPase G subunit is a soluble subunit that shares homology with the F-ATPase G subunit and may be part of a connection stalk between V1 and V0. The G2 isoform of the G subunit associates with the pore-forming $\alpha 1C$ -subunit of L-type calcium channel and aids in proper membrane targeting of the calcium channel. The genes encoding the G1 and G2 V-ATPase subunits map to chromosomes 9q33.1 and 6p21.3, respectively.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 14 kDa

Swiss-Prot:

Q96LB4

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

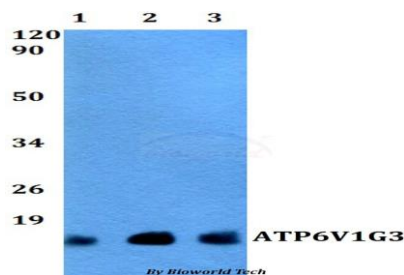
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

ATP6V1G3 polyclonal antibody detects endogenous levels of ATP6V1G3 protein.

DATA:



Western blot (WB) analysis of ATP6V1G3 polyclonal antibody at 1:500 dilution

Lane1:HEK293T whole cell lysate

Lane2:NIH-3T3 whole cell lysate

Lane3:PC12 whole cell lysate

Note:

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

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