

ATP6L (H-127): sc-134887

BACKGROUND

ATP6L, also known as ATP6V0C, Vma3, ATPL, VATL or ATP6C, is a vacuolar-type H⁺-ATPase (V-ATPase). V-ATPases are multisubunit enzymes 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. Consisting of 155 amino acids, ATP6L is a multi-pass membrane protein that makes up part of the V₀ domain. The gene encoding ATP6L maps to human chromosome 16p13.3 and mouse chromosome 17 A3.3.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ATP6V0C (human) mapping to 16p13.3; Atp6v0c (mouse) mapping to 17 A3.3.

SOURCE

ATP6L (H-127) is a rabbit polyclonal antibody raised against amino acids 29-155 mapping at the C-terminus of ATP6L of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

ATP6L (H-127) is recommended for detection of ATP6L of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

ATP6L (H-127) is also recommended for detection of ATP6L in additional species, including equine, canine, bovine, porcine and avian.

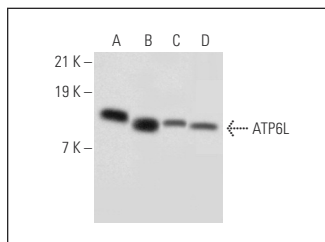
Suitable for use as control antibody for ATP6L siRNA (h): sc-93494, ATP6L siRNA (m): sc-141361, ATP6L shRNA Plasmid (h): sc-93494-SH, ATP6L shRNA Plasmid (m): sc-141361-SH, ATP6L shRNA (h) Lentiviral Particles: sc-93494-V and ATP6L shRNA (m) Lentiviral Particles: sc-141361-V.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, ACHN whole cell lysate: sc-364365 or SHP-77 whole cell lysate: sc-364258.

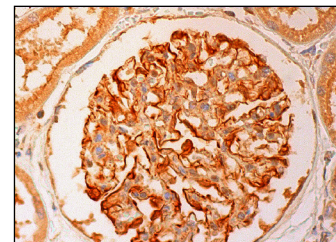
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz[™]: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



ATP6L (H-127): sc-134887. Western blot analysis of ATP6L expression in NIH/3T3 (A), OVCAR-3 (B), ACHN (C) and SHP-77 (D) whole cell lysates.



ATP6L (H-127): sc-134887. Immunoperoxidase staining of formalin fixed, paraffin-embedded human kidney tissue showing membrane and cytoplasmic staining of cells in glomeruli and cytoplasmic staining of cells in tubules.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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