

ATP6L (D-12): sc-167163

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.

REFERENCES

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CHROMOSOMAL LOCATION

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

SOURCE

ATP6L (D-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a cytoplasmic domain 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.

Blocking peptide available for competition studies, sc-167163 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ATP6L (D-12) 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), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other ATP6 family members.

ATP6L (D-12) is also recommended for detection of ATP6L in additional species, including bovine.

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.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.