

ABCA10 (G-14): sc-167031

BACKGROUND

ABCA10 (ATP-binding cassette, sub-family A (ABC1), member 10), also known as EST698739, is a 1,543 amino acid protein belonging to the ABC transporter superfamily and the ABCA family. The ABC1 subfamily is the only major ABC subfamily exclusive to multicellular eukaryotes. Ubiquitously expressed, with high expression in skeletal muscle, heart, brain and gastrointestinal tract, ABCA10 is a multi-pass membrane protein that contains two ABC transporter domains and exists as four alternatively spliced isoforms. ABCA10 is clustered among five other ABC1 family members on human chromosome 17q24. ABCA10 exhibits membrane subcellular localization and likely acts as a transporter involved in macrophage lipid homeostasis. ABCA10 is down-regulated by cholesterol loading of macrophages and may play a role in tumor development.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ABCA10 (human) mapping to 17q24.3.

SOURCE

ABCA10 (G-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of ABCA10 of human origin.

STORAGE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-167031 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ABCA10 (G-14) is recommended for detection of ABCA10 of 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 ABCA family members.

Suitable for use as control antibody for ABCA10 siRNA (h): sc-94133, ABCA10 shRNA Plasmid (h): sc-94133-SH and ABCA10 shRNA (h) Lentiviral Particles: sc-94133-V.

Molecular Weight of ABCA10: 176 kDa.

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.

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.