SANTA CRUZ BIOTECHNOLOGY, INC.

ABCF2 (C-13): sc-49340

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

ATP-binding cassette (ABC) transporters are an evolutionarily conserved family of widely-expressed proteins that use ATP hydrolysis to catalyze the transport of various molecules across extracellular and intracellular membranes. As the largest family of transmembrane proteins, ABC genes comprise several subfamilies. Eukaryotic ABC transporters are largely responsible for trafficking hydrophobic compounds either within the cell, as part of a metabolic process, or outside the cell, for transport to other organs or for secretion from the body. ABCF2 in particular plays a putative role in tumor suppression at metastatic sites and in the endocrine pathway for breast cancer and may be a prognostic marker for clear cell ovarian adenocarcinoma.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ABCF2 (human) mapping to 7q36.1; Abcf2 (mouse) mapping to 5 A3.

SOURCE

ABCF2 (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of ABCF2 of human origin.

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-49340 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

ABCF2 (C-13) is recommexnded for detection of ABCF2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10^6 cells).

ABCF2 (C-13) is also recommended for detection of ABCF2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for ABCF2 siRNA (h): sc-60119, ABCF2 siRNA (m): sc-60120, ABCF2 shRNA Plasmid (h): sc-60119-SH, ABCF2 shRNA Plasmid (m): sc-60120-SH, ABCF2 shRNA (h) Lentiviral Particles: sc-60119-V and ABCF2 shRNA (m) Lentiviral Particles: sc-60120-V.

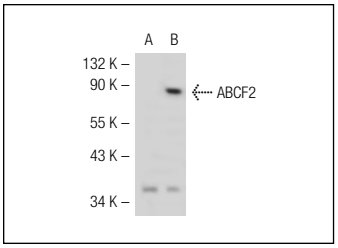
Molecular Weight of ABCF2: 71 kDa.

Positive Controls: ABCF2 (m): 293T Lysate: sc-118161 or MDA-MB-231 cell lysate: sc-2232.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



ABCF2 (C-13): sc-49340. Western blot analysis of ABCF2 expression in non-transfected: sc-117752 (**A**) and mouse ABCF2 transfected: sc-118161 (**B**) 293T whole cell lysates.

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.