

ABCF2 (2001C1): sc-81176

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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3. Ogawa, Y., Tsuda, H., Hai, E., Tsuji, N., Yamagata, S., Tokunaga, S., Nakazawa, K., Tamamori, Y., Ogawa, M., Shimizu, S., Inoue, T. and Nishiguchi, Y. 2006. Clinical role of ABCF2 expression in breast cancer. *Anticancer Res.* 26: 1809-1814.
4. Nishimura, S., Tsuda, H., Ito, K., Jobo, T., Yaegashi, N., Inoue, T., Sudo, T., Berkowitz, R.S. and Mok, S.C. 2007. Differential expression of ABCF2 protein among different histologic types of epithelial ovarian cancer and in clear cell adenocarcinomas of different organs. *Hum. Pathol.* 38: 134-139.

CHROMOSOMAL LOCATION

Genetic locus: ABCF2 (human) mapping to 7q36.1.

SOURCE

ABCF2 (2001C1) is a mouse monoclonal antibody raised against a recombinant protein corresponding to an internal region of ABCF2 of human origin.

PRODUCT

Each vial contains 100 µg IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 1.0% stabilizer protein.

STORAGE

For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

PROTOCOLS

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

APPLICATIONS

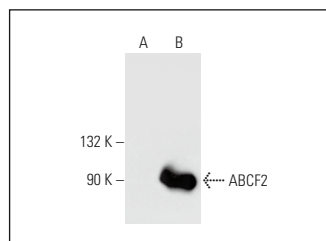
ABCF2 (2001C1) is recommended for detection of ABCF2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

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

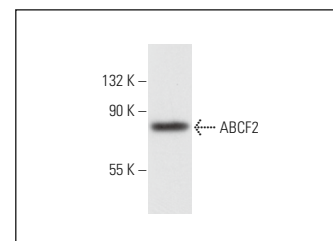
Molecular Weight of ABCF2: 71 kDa.

Positive Controls: MDA-MB-231 cell lysate: sc-2232.

DATA



ABCF2 (2001C1): sc-81176. Western blot analysis of ABCF2 expression in non-transfected: sc-117752 (A) and mouse ABCF2 transfected: sc-118161 (B) 293T whole cell lysates.



ABCF2 (2001C1): sc-81176. Western blot analysis of ABCF2 expression in MDA-MB-231 whole cell lysate.

RESEARCH USE

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