

# ABCF2 (C-10): sc-377466

## 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. 2006. 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; Abcf2 (mouse) mapping to 5 A3.

## SOURCE

ABCF2 (C-10) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 125-159 near the N-terminus of ABCF2 of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>3</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-377466 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

## 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-10) is recommended for detection of ABCF2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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 solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

ABCF2 (C-10) 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.

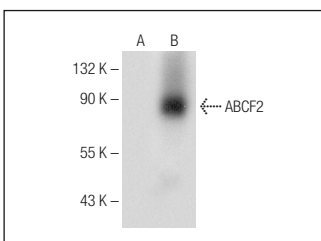
Molecular Weight of ABCF2: 71 kDa.

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

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

## DATA



ABCF2 (C-10): sc-377466. 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](http://www.scbt.com) for detailed protocols and support products.