

ABCF1 (H-135): sc-98376

BACKGROUND

ABCF1 (ATP-binding cassette sub-family F member 1, TNF α -stimulated ABC protein) is a 845 amino acid protein encoded by the human gene ABCF1. ABCF1 belongs to the ABC transporter family (EF3 subfamily) and contains two ABC transporter domains. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct sub-families (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). Unlike other members of the superfamily, this protein lacks the transmembrane domains which are characteristic of most ABC transporters. ABCF1 is believed to have a role in mRNA translation due to its interaction with eukaryotic initiation factor 2 (eIF2). It is also associated with ribosomes. ABCF1 is ubiquitously expressed and can be induced with TNF. Upon DNA damage, ABCF1 is phosphorylated by either ATM or ATR.

REFERENCES

1. Richard, M., et al. 1998. ABC50, a novel human ATP-binding cassette protein found in tumor necrosis factor- α -stimulated synoviocytes. *Genomics* 53: 137-145.
2. Klein, I., et al. 2000. An inventory of the human ABC proteins. *Biochim. Biophys. Acta* 1461: 237-262.

CHROMOSOMAL LOCATION

Genetic locus: ABCF1 (human) mapping to 6p21.33; Abcf1 (mouse) mapping to 17 B1.

SOURCE

ABCF1 (H-135) is a rabbit polyclonal antibody raised against amino acids 524-658 mapping within an internal region of ABCF1 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.

APPLICATIONS

ABCF1 (H-135) is recommended for detection of ABCF1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

ABCF1 (H-135) is also recommended for detection of ABCF1 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for ABCF1 siRNA (h): sc-95478, ABCF1 siRNA (m): sc-140760, ABCF1 shRNA Plasmid (h): sc-95478-SH, ABCF1 shRNA Plasmid (m): sc-140760-SH, ABCF1 shRNA (h) Lentiviral Particles: sc-95478-V and ABCF1 shRNA (m) Lentiviral Particles: sc-140760-V.

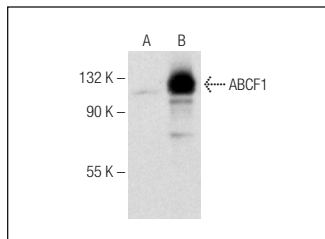
Molecular Weight of ABCF1: 96 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, K-562 whole cell lysate: sc-2203 or ABCF1 (h): 293T Lysate: sc-171396.

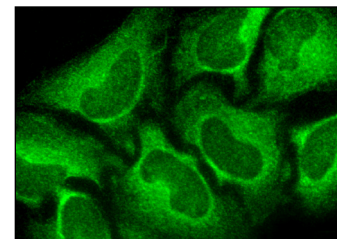
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

DATA



ABCF1 (H-135): sc-98376. Western blot analysis of ABCF1 expression in non-transfected: sc-117752 (A) and human ABCF1 transfected: sc-171396 (B) 293T whole cell lysates.



ABCF1 (H-135): sc-98376. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization.

SELECT PRODUCT CITATIONS

1. Noha, M., et al. 2011. Metastasis tumour suppressor-1 and the aggressiveness of prostate cancer cells. *Exp. Ther. Med.* 2: 157-162.
2. DU, P., et al. 2011. Metastasis suppressor-1, MTSS1, acts as a putative tumour suppressor in human bladder cancer. *Anticancer Res.* 31: 3205-3212.

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.



Try **ABCF1 (H-3): sc-377185** or **ABCF1 (C-2): sc-377445**, our highly recommended monoclonal alternatives to ABCF1 (H-135).