SGTA (6A4): sc-130557

BACKGROUND
SGTA (small glutamine-rich tetratricopeptide repeat (TPR)-containing protein A or α), also known as SGT, hSGT or UBp (Vpu-binding protein), is a ubiquitously expressed protein that contains three TPR protein-protein interaction repeats. SGTA is believed to function as a component of the androgen receptor (AR)-chaperone-cochaperone complex, acting as a cochaperone involved in androgen signaling. More specifically, SGTA binds to the hinge region of the AR functions to retain the AR in the cytoplasm, thereby inhibiting androgen signaling. In addition, SGTA functions as a cochaperone for Hsp90 and Hsp70, two proteins known to participate in apoptosis. On the basis of its role in apoptosis and androgen signaling, SGTA is a potential candidate for PCOS (polycystic ovary syndrome), a disorder characterized by androgen excess, obesity and menstrual disturbances. SGTA also interacts with the nonstructural Parvovirus protein NS1 and the HIV-1 proteins Vpu and Gag.

CHROMOSOMAL LOCATION
Genetic locus: SGTA (human) mapping to 19p13.3; Sgta (mouse) mapping to 10 C1.

SOURCE
SGTA (6A4) is a mouse monoclonal antibody raised against recombinant SGTA of human origin.

PRODUCT
Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

SGTA (6A4) is available conjugated to agarose (sc-130557 AC), 500 µg/0.25 ml expression in HeLa (A), K-562 (B), CCRF-CEM (C) and SH-SY5Y (D) whole cell lysates. SGTA (6A4): sc-130557. Western blot analysis of SGTA expression in HeLa (A), K-562 (B), CCRF-CEM (C) and SH-SY5Y (D) whole cell lysates.

SGTA (6A4): sc-130557. Western blot analysis of SGTA expression in non-transfected: sc-117752 (A) and mouse SGTA transfected: sc-123527 (B) 293T whole cell lysates.

APPLICATONS
SGTA (6A4) is recommended for detection of SGTA 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 solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000). Suitable for use as control antibody for SGTA siRNA (h): sc-97627, SGTA siRNA (m): sc-153427, SGTA shRNA Plasmid (h): sc-97627-SH, SGTA shRNA Plasmid (m): sc-153427-SH, SGTA shRNA (h) Lentiviral Particles: sc-97627-V and SGTA shRNA (m) Lentiviral Particles: sc-153427-V. Molecular Weight of SGTA: 35 kDa. Positive Controls: SGTA (m): 293T Lysate: sc-123527, HeLa whole cell lysate: sc-2200 or CCRF-CEM cell lysate: sc-2225.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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-IgG BP-FITC: sc-516140 or m-IgG BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Hard-set Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA

SELECT PRODUCT CITATIONS

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 for detailed protocols and support products.