

SGTA (H-80): sc-292025

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-co-chaperone complex, acting as a co-chaperone 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 co-chaperone for HSP 90 and HSP 70, 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 $G_{\alpha\gamma}$.

REFERENCES

1. Kordes, E., et al. 1998. Isolation and characterization of human SGT and identification of homologues in *Saccharomyces cerevisiae* and *Caenorhabditis elegans*. *Genomics* 52: 90-94.
2. Tobaben, S., et al. 2001. A trimeric protein complex functions as a synaptic chaperone machine. *Neuron* 31: 987-999.

CHROMOSOMAL LOCATION

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

SOURCE

SGTA (H-80) is a rabbit polyclonal antibody raised against amino acids 41-120 mapping near the N-terminus of SGTA 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

SGTA (H-80) 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 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).

SGTA (H-80) is also recommended for detection of SGTA in additional species, including equine, canine, bovine and porcine.

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.

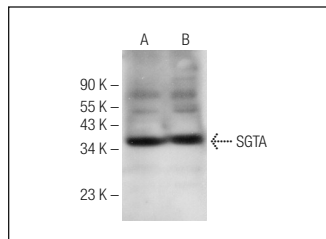
Molecular Weight of SGTA: 35 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, SH-SY5Y cell lysate: sc-3812 or K-562 whole cell lysate: sc-2203.

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



SGTA (H-80): sc-292025. Western blot analysis of SGTA expression in HeLa (A) and K-562 (B) whole cell lysates.

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 **SGTA (6A4): sc-130557** or **SGTA (F-7): sc-374031**, our highly recommended monoclonal alternatives to SGTA (H-80).