AGTRAP (F-6): sc-271367

BACKGROUND
AGTRAP (Angiotensin II receptor-associated protein), also known as ATRAP, is a transmembrane protein that localizes to the Golgi apparatus, the endoplasmic reticulum (ER), endocytic vesicles and perinuclear vesicular structures. Highly expressed in heart, kidney, pancreas and thyroid, AGTRAP functions as a negative regulator of the Angiotensin II type I receptor (AT1). AGTRAP controls receptor internalization and receptor desensitization events (such as phosphorylation) and, through this control, decreases Angiotensin II signaling, thereby reducing rates of cell proliferation and Angiotensin II-stimulated transcriptional activity. AGTRAP is 159 amino acids in length and is able to bind RACK1 (receptor for activated C kinase 1); an association that is thought to help recruit AGTRAP to AT1. Two isoforms of AGTRAP exist due to alternative splicing events.

CHROMOSOMAL LOCATION
Genetic locus: AGTRAP (human) mapping to 1p36.22.

SOURCE
AGTRAP (F-6) is a mouse monoclonal antibody raised against amino acids 1-159 representing full length AGTRAP of human origin.

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

AGTRAP (F-6) is available conjugated to agarose (sc-271367 AC), 500µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-271367 HRP), 200µg/ml, for WB, IHC/IF and ELISA; to either phycoerythrin (sc-271367 PE), fluorescein (sc-271367 FITC), Alexa Fluor® 488 (sc-271367 AF488), Alexa Fluor® 546 (sc-271367 AF546), Alexa Fluor® 594 (sc-271367 AF594) or Alexa Fluor® 647 (sc-271367 AF647), 200µg/ml, for WB (RGB), IF, IHC/IF and FCM; and to either Alexa Fluor® 680 (sc-271367 AF680) or Alexa Fluor® 790 (sc-271367 AF790), 200µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

STORAGE
Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS
AGTRAP (F-6) is recommended for detection of AGTRAP of human origin by Western Blotting (starting dilution 1:100, dilution range: 1:100-1,000), immunoprecipitation (1-2µg per 100-500µg 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 AGTRAP siRNA (h): sc-78862, AGTRAP shRNA Plasmid (h): sc-78862-SH and AGTRAP shRNA (h) Lentiviral Particles: sc-78862-V.

Molecular Weight of AGTRAP: 18 kDa.

Positive Controls: U-87 MG cell lysate: sc-2411, Daudi cell lysate: sc-2415 or K-562 whole cell lysate: sc-2203.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκBP-HRP: sc-516102 or m-IgGκBP-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-IgGκBP-FITC: sc-516140 or m-IgGκBP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA
AGTRAP (F-6): sc-271367. Western blot analysis of AGTRAP expression in U-87 MG (A), Daudi (B) and K-562 (C) whole cell lysates.

AGTRAP (F-6): sc-271367. Immunofluorescence staining of methanol-fixed Hela cells showing cytoplasmic localization.

SELECT PRODUCT CITATIONS

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.

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