MAS1 (G-1): sc-390453

**BACKGROUND**
The proto-oncogene MAS1 is a G protein-coupled receptor located on the plasma membrane. In transfected NIH/3T3 cells, MAS1 has a weak focus-inducing activity. MAS1 is an antagonist of the Angiotensin II type 1 (AT1) receptor, inhibiting the actions of Angiotensin II. MAS1 localizes to cardiomyocytes of the heart in mice. Mice deficient for MAS1 demonstrate a lower systolic tension and heart rate. The proper structure and function of the heart may be impaired by nonfunctional MAS1.

**CHROMOSOMAL LOCATION**
Genetic locus: MAS1 (human) mapping to 6q25.3; Mas1 (mouse) mapping to 17 A1.

**SOURCE**
MAS1 (G-1) is a mouse monoclonal antibody raised against amino acids 1-117 mapping at the N-terminus of MAS1 of human origin.

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

MAS1 (G-1) is available conjugated to agarose (sc-390453 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390453 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-390453 PE), fluorescein (sc-390453 FITC), Alexa Fluor® 488 (sc-390453 AF488), Alexa Fluor® 546 (sc-390453 AF546), Alexa Fluor® 594 (sc-390453 AF594) or Alexa Fluor® 647 (sc-390453 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-390453 AF680) or Alexa Fluor® 790 (sc-390453 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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

**APPLICATIONS**
MAS1 (G-1) is recommended for detection of MAS1 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), immunohistochemistry (including paraffin-embedded sections) (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 MAS1 siRNA (h): sc-62600, MAS1 siRNA (m): sc-62601, MAS1 shRNA Plasmid (h): sc-62600-SH, MAS1 shRNA Plasmid (m): sc-62601-SH, MAS1 shRNA (h) Lentiviral Particles: sc-62600-V and MAS1 shRNA (m) Lentiviral Particles: sc-62601-V.

Molecular Weight of MAS1: 37 kDa.

Positive Controls: mouse liver extract: sc-2256, rat liver extract: sc-2395 or AS49 cell lysate: sc-2413.

**RECOMMENDED SUPPORT REAGENTS**
To ensure optimal results, the following support reagents are recommended:

**DATA**
![Western Blot Analysis of MAS1 Expression](image)

**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.