Angiotensin (N-10): sc-7419

**BACKGROUND**
Angiotensin is formed from a precursor, angiotensinogen, which is produced by the liver and found in the α-globulin fraction of plasma. The lowering of blood pressure is a stimulus to secretion of renin by the kidney into the blood. Renin cleaves from angiotensinogen a terminal decapeptide, Angiotensin I (Ang I). This is further altered by the enzymatic removal of a dipeptide to form Angiotensin II (Ang II). Screening a panel of human-mouse somatic cell hybrids confirmed the assignment of the AGT locus to human chromosome 1. Ang II, an octapeptide hormone, is an important physiological effector of blood pressure and volume regulation through vasoconstriction, aldosterone release, sodium uptake and thirst stimulation. Mechanical stress causes release of Ang II from cardiac myocytes and that Ang II acts as an initial mediator of the hypertrophic response. Ang II treatment also stimulates phosphorylation of Shc, FAK and MAP kinases and induces MKP-1, indicating stimulation of growth factor pathways. Ang II stimulation through AT1 has been shown to activate the JAK/Stat pathway involving a direct interaction between JAK2 and AT1 as demonstrated by co-immunoprecipitation.

**CHROMOSOMAL LOCATION**
Genetic locus: AGT (human) mapping to 1q42.2; Agt (mouse) mapping to 8 E2.

**SOURCE**
Angiotensin (N-10) is an affinity purified goat polyclonal antibody raised against a peptide mapping representing full length of Angiotensin of human origin.

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

Blocking peptide available for competition studies, sc-7419 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**
Angiotensin (N-10) is recommended for detection of Angiotensin precursor, Angiotensin I, Angiotensin II and Angiotensin III 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). Angiotensin (N-10) is also recommended for detection of Angiotensin precursor, Angiotensin I, Angiotensin II and Angiotensin III in addition to species, including equine, canine and bovine.


Molecular Weight of Angiotensin: 60 KDa.

Positive Controls: Angiotensin (h): 293T Lysate: sc-159690.

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

**DATA**

**SELECT PRODUCT CITATIONS**

**RESEARCH USE**
For research use only, not for use in diagnostic procedures.

**Try Angiotensin (H-12): sc-374511 or Angiotensin I (BGN/KA/22H): sc-80682, our highly recommended monoclonal alternatives to Angiotensin (N-10).**