**BACKGROUND**

Megsin, also designated SerpinB7 and TP55, is a 380 amino acid cytoplasmic protein that is predominantly expressed in mesangial cells, which play an important role in maintaining glomerular structure and function. As a member of the serpin family, meggin is a serine protease inhibitor which potentially inactivate MMP-2, MMP-9 and plasmin, proteins that are notably responsible for degradation of extracellular matrix. Overexpression of meggin results in an increase in number of mesangial cells and therefore a progressive mesangial matrix expansion, which is accompanied by immune complex deposition. This finding suggests that meggin significantly influences the role of mesangial cells in renal structure and is likely implicated in a variety of nephropathies.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: SERPINB7 (human) mapping to 18q21.33, Serpinb7 (mouse) mapping to 1 E2.1.

**SOURCE**

meggin (I-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of meggin of human origin.

**PRODUCT**

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-79259 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

meggin (I-16) is recommended for detection of meggin of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 meggin siRNA (h): sc-75768, meggin siRNA (m): sc-75769, meggin shRNA Plasmid (h): sc-75768-SH, meggin shRNA Plasmid (m): sc-75769-SH, meggin shRNA (h) Lentiviral Particles: sc-75768-V and meggin shRNA (m) Lentiviral Particles: sc-75769-V.

Molecular Weight of meggin: 43 kDa.

**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) Immunofluorescence: use goat anti-rabbit IgG-TRC: 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.

**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.

**MONOS**

Try meggin (H-10): sc-515694, our highly recommended monoclonal alternative to meggin (I-16).