Gelsolin (C-20): sc-6405

**BACKGROUND**

Gelsolin (also known as brevin, actin-depolymerizing factor or ADF), a protein of leukocytes, platelets and other cells, severs actin filaments in the presence of submicromolar calcium, thereby isolating cytoplasmic actin gels. A calcium-independent mechanism reverses the process. A Gelsolin variant with 23 more amino-terminal amino acids is a plasma component probably involved in the clearance of actin, the most abundant human protein, from the circulation. It has been suggested that a single gene encodes both cell and plasma gelsolins. Gelsolin may be unique in that it is made for both secretion and intracytoplasmic location. Amino acid homology was identified between Gelsolin and the amyloid of the Finnish variety of amyloidosis. The amyloid in this disorder is antigenically and structurally related to Gelsolin. Gelsolin is the principal intracellular and extracellular actin-severing protein. Gelsolin and Gc protein together constitute the extracellular actin-scavenger system which prevents the toxic effects of actin release into the extracellular space under circumstances of cell necrosis.

**CHROMOSOMAL LOCATION**

Genetic locus: GSN (human) mapping to 9q33.2; Gsn (mouse) mapping to 2 B.

**SOURCE**

Gelsolin (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping to the C-terminus of Gelsolin 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-6405 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

Gelsolin (C-20) is recommended for detection of plasma and cytoplasmic Gelsolin 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).

Gelsolin (C-20) is also recommended for detection of plasma and cytoplasmic Gelsolin in additional species, including equine, canine, bovine, porcine and avian.


Molecular Weight of Gelsolin: 90 kDa.

**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.

**DATA**

Gelsolin (C-20): sc-6405. Western blot analysis of Gelsolin expression in non-transfected 293T: sc-117752 (A), mouse Gelsolin transfected 293T: sc-126068 (B) and BJAB (C) whole cell lysates.

Western blot analysis of Gelsolin expression in BJAB whole cell lysates (A,B). Antibodies tested include Gelsolin (C-20): sc-6405 (A) and Gelsolin (N-18): sc-6406 (B).

**SELECT PRODUCT CITATIONS**


