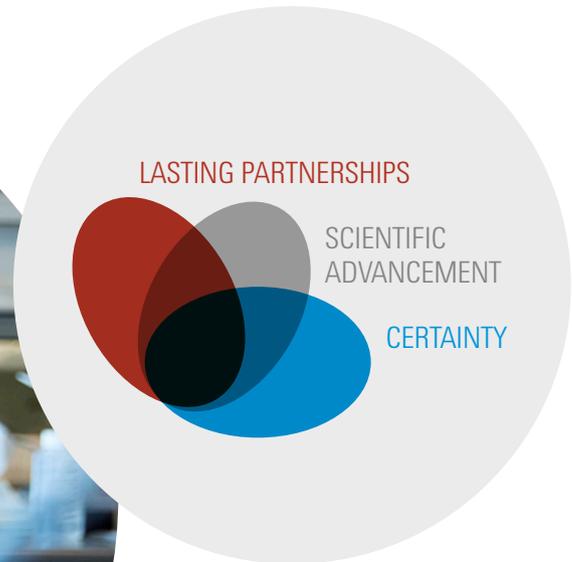


Gelsolin
Gc-Globulin

Ideal Trauma
Markers



Actin is an intracellular protein that can polymerize and form filaments. The mobility and the shape of cells depend on this ability. Upon cell death and tissue injury, actin is released into the blood circulation, where actin filament formation is favored over monomer actin (G-actin) (1).

The actin-scavenger system comprises Gelsolin, which depolymerizes actin, and Gc-Globulin, which binds monomeric actin and facilitates its rapid clearance from the blood circulation.

Gelsolin and Gc-Globulin

Gelsolin is a multifunctional actin regulatory protein synthesized primarily in the skeletal muscle. Gelsolin exists in both intracellular and extracellular forms.

Gc-Globulin is a multifunctional serum protein synthesized in the liver. Gc-Globulin is known as vitamin D binding protein as the majority of vitamin D in the blood circulates bound to Gc-Globulin (2, 3).

Actin Scavenger system

The actin-scavenger system comprises Gelsolin and Gc-Globulin which both assist in protecting the host from the injurious potential of free actin (2, 3).

- Gelsolin depolymerizes actin, and the gelsolin-actin complexes are rapidly cleared from the circulation (2)
- Gc-Globulin, bind monomeric actin and facilitates its rapid clearance from the circulation (3)

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Ordering Information

Product	Code
Polyclonal Rabbit anti Human Gelsolin	A0146
Polyclonal Rabbit anti Human Gc-Globulin	A0021

For further manufacturing – please inquire at rpsupport@agilent.com

References

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2. Lee et al. The extracellular actin-scavenger system and actin toxicity. New Engl. J Med., 1992, 326, 1335-1345
3. Suhler et al. Decreased plasma gelsolin concentrations in acute liver failure, myocardial infarction, septic shock and myonecrosis. Crit. Care Med., 1997, 25, 594-598



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Agilent Technologies Denmark ApS
Produktionsvej 42
DK-2600 Glostrup
Denmark

Tel. +45 44 85 95 00
reagentpartnership@agilent.com