

# M-ficolin (G-13): sc-168519

## BACKGROUND

M-ficolin, also known as ficolin-A, ficolin-1, ficolin- $\alpha$ , FCN1, FCNM or collagen/fibrinogen domain containing protein 1, is a 326 amino acid member of the ficolin lectin family. Characteristic of ficolin family proteins, M-ficolin contains a short N-terminus, one collagen-like domain and one fibrinogen-like domain at its C-terminus. M-ficolin is a secreted innate immunity pattern recognition molecule predominantly expressed in peripheral blood leukocytes. It is believed to function as a plasma protein and is known to interact with elastin, carbohydrates and corticosteroids. M-ficolin exists as a homopolymer through intermolecular disulfide bonding and is involved in activating lectin activity via association with MASPs and specific carbohydrate ligands.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: FCN1 (human) mapping to 9q34.3.

## SOURCE

M-ficolin (G-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of M-ficolin of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-168519 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

M-ficolin (G-13) is recommended for detection of M-ficolin of 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); non cross-reactive with H-ficolin or L-ficolin.

Suitable for use as control antibody for M-ficolin siRNA (h): sc-92695, M-ficolin shRNA Plasmid (h): sc-92695-SH and M-ficolin shRNA (h) Lentiviral Particles: sc-92695-V.

Molecular Weight of M-ficolin: 35 kDa.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz<sup>™</sup> 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **M-ficolin (036-05-1): sc-80486**, our highly recommended monoclonal alternative to M-ficolin (G-13).