

H-ficolin (H-55): sc-134912

BACKGROUND

H-ficolin (ficolin-3, collagen/fibrinogen domain-containing lectin 3 p35, Hakata antigen) is a 299 amino acid protein encoded by the human gene FCN3. H-ficolin belongs to the ficolin lectin family and contains one collagen-like domain and one Fibrinogen C-terminal domain. Ficolins and mannose-binding lectin (MBL) are collagen-like defence proteins that serve as recognition molecules in lectin complement pathway. H-ficolin is a collagen-like defense molecule and is a known autoantigen in patients with systemic lupus erythematosus (SLE). Other collagen-like defense molecules, such as C1q, mannose-binding lectin (MBL) and L-ficolin, bind to apoptotic cells and mediate their clearance by phagocytic cells. Dysfunction in this mechanism is regarded as an important contributor to the pathophysiology of SLE. H-ficolin mediates the clearance of late apoptotic cells and is involved in the maintenance of tissue homeostasis and might play a protective role against the development of autoimmunity.

REFERENCES

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5. Luo, J.H., et al. 2006. Transcriptomic and genomic analysis of human hepatocellular carcinomas and hepatoblastomas. *Hepatology* 44: 1012-1024.
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CHROMOSOMAL LOCATION

Genetic locus: FCN3 (human) mapping to 1p33.

SOURCE

H-ficolin (H-55) is a rabbit polyclonal antibody raised against amino acids 166-220 mapping within an internal region of H-ficolin of human origin.

STORAGE

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

PRODUCT

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

APPLICATIONS

H-ficolin (H-55) is recommended for detection of H-ficolin of 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).

Suitable for use as control antibody for H-ficolin siRNA (h): sc-105432, H-ficolin shRNA Plasmid (h): sc-105432-SH and H-ficolin shRNA (h) Lentiviral Particles: sc-105432-V.

Molecular Weight of H-ficolin: 35 kDa.

Positive Controls: T98G cell lysate: sc-2294, HeLa whole cell lysate: sc-2200 or THP-1 cell lysate: sc-2238.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: 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.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.