



# Mouse Anti-Human ficolin 1/FCN1 monoclonal antibody, clone NN17 (CABT-ZB1021)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

|                           |  |
|---------------------------|--|
| <b>Specificity</b>        | It reacts with Human ficolin 1/FCN1<br>It has no cross-reactivity in ELISA with Human cell lysate (293 cell line).   |
| <b>Target</b>             | FCN1   |
| <b>Immunogen</b>          | Recombinant Human FCN1 protein   |
| <b>Isotype</b>            | IgG  |
| <b>Source/Host</b>        | Mouse  |
| <b>Species Reactivity</b> | Human  |
| <b>Clone</b>              | NN17   |
| <b>Purification</b>       | Protein A purified   |
| <b>Conjugate</b>          | Unconjugated   |
| <b>Applications</b>       | ELISA(det)<br>We recommend the following for sandwich ELISA (Capture - Detection):<br>CABT-ZB693 - CABT-ZB1021<br>This antibody will detect ficolin 1/FCN1 in antibody pair set. [ABPR-ZB272]  |
| <b>Preparation</b>        | This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human FCN1. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography. |
| <b>Format</b>             | Purified, Liquid   |
| <b>Concentration</b>      | Lot specific   |

|                     |  |
|---------------------|--|
| <b>Size</b>         | 50 µL, 100 µL, 200 µL, 1 mL  |
| <b>Buffer</b>       | PBS  |
| <b>Preservative</b> | None   |
| <b>Storage</b>      | This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles. |
| <b>Ship</b>         | Wet ice  |

## BACKGROUND

**Introduction**

Ficolins are humoral molecules of the innate immune systems which recognize carbohydrate molecules on pathogens, apoptotic and necrotic cells. The Ficolin family of proteins are characterized by the presence of a leader peptide, a short N-terminal segment, followed by a collagen-like region, and a C-terminal fibrinogen-like domain. Ficolins are humoral molecules of the innate immune systems which recognize carbohydrate molecules on pathogens, apoptotic and necrotic cells. Three Ficolins have been identified in humans: L-Ficolin, H-Ficolin and M-Ficolin (also referred to as Ficolin-2, -3 and -1, respectively). They are soluble oligomeric defence proteins with lectin-like activity and they are structurally similar to the human collectins, mannan-binding lectin (MBL) and surfactant protein A and D. Dysfunction or abnormal expressions of Ficolins may involved in the pathogenesis of human diseases including infectious and inflammatory diseases, autoimmune disease and clinical syndrome of preeclampsia. They are soluble oligomeric defence proteins with lectin-like activity and they are structurally similar to the human collectins, mannan-binding lectin (MBL) and surfactant protein A and D. Upon recognition of the infectious agent, the Ficolins act through two distinct routes: initiate the lectin pathway of complement activation through attached serine proteases (MASPs), and a primitive opsonophagocytosis thus limiting the infection and concurrently orchestrating the subsequent adaptive clonal immune response. Ficolin-1 (FCN1) is predominantly expressed in the peripheral blood leukocytes.

**Keywords** FCN1; ficolin (collagen/fibrinogen domain containing) 1; ficolin-1; FCNM

## GENE INFORMATION

**Synonyms** FCN1; ficolin (collagen/fibrinogen domain containing) 1; ficolin-1; FCNM; M-ficolin; ficolin-A; ficolin-alpha; collagen/fibrinogen domain-containing protein 1; ficolin (collagen/fibrinogen domain-containing) 1

**Entrez Gene ID** [2219](#)

**UniProt ID** [O00602](#)