



## ***Monoclonal Anti-human Ficolin-3 Antibody***

### **ORDERING INFORMATION**

**Catalog Number:** MAB2367

**Clone:** 296134

**Lot Number:** VLL01

**Size:** 100 µg

**Formulation:** 0.2 µm filtered solution in PBS  
with 5% trehalose

**Storage:** -20° C

**Reconstitution:** sterile PBS

**Specificity:** human Ficolin-3

**Immunogen:** NS0-derived rhFicolin-3

**Ig class:** mouse IgG<sub>2b</sub>

**Recommended Application:**  
Western blot

**Other Application:**  
Direct ELISA

### ***Preparation***

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, NS0-derived, recombinant human Ficolin-3 (rhFicolin-3). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography. Ficolin-3 is a lectin that contains fibrinogen-like and collagen-like domains. It circulates as a hexamer of disulfide-linked homotrimers. Ficolin-3 associates with MASP proteins to activate complement.

### ***Formulation***

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

### ***Endotoxin Level***

< 0.1 EU per 1 µg of the antibody as determined by the LAL method.

### ***Reconstitution***

Reconstitute with sterile PBS. If 0.2 mL of PBS is used, the antibody concentration will be 500 µg/mL.

### ***Storage***

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

### ***Specificity***

This antibody was selected for its ability to detect human Ficolin-3 in direct ELISAs and western blots. In these formats, this antibody does not cross-react with rhFicolin-2.

### ***Applications***

**Western Blot** - This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect human Ficolin-3. Using a colorimetric detection system, the detection limit for rhFicolin-3 is approximately 25 ng/lane under non-reducing and reducing conditions. Chemiluminescent detection with WesternGlo Chemiluminescent Detection Substrate (R&D Systems, Catalog # AR004) will increase sensitivity by 5 to 50 fold.

**Direct ELISA** - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human Ficolin-3. The detection limit for rhFicolin-3 is approximately 1 ng/well.

**Optimal dilutions should be determined by each laboratory for each application.**