

# Goat Anti-Human complement C3 Polyclonal Antibody

Goat, Polyclonal (complement C3)

Cat. No. DPAB1239

Lot. No. (See product label)

## PRODUCT INFORMATION

**Product Overview:** Goat Antibody to Guinea Pig Serum complement C3 Fluorescein conjugated

**Specificity:** Monospecific for the third component of guinea pig complement (C3).

**Immunogen:** Guinea Pig Complement (C3).

**Host animal:** Goat

**Format:** FITC, Liquid

**Applications:** Direct detection of guinea pig C3 in a fluorescence microscopy assay system. This product is especially useful in anti-complement immunofluorescent (ACIF) assays. A starting range of 1:15–1:50 is suggested. Acetone fixation of the antigen source is recommended prior to staining. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

**Purification:** Sodium sulfate precipitation and ion-exchange chromatography. The immunoglobulin fraction is conjugated with high purity isomer I of fluorescein isothiocyanate. Care is taken to ensure complete removal of any free fluorescein from the final product.

## REFERENCES

1. a b Goldberger G, Bruns GA, Rits M, Edge MD, Kwiatkowski DJ (July 1987). "Human complement factor I: analysis of cDNA-derived primary structure and assignment of its gene to chromosome 4". J. Biol. Chem. 262 (21): 10065–10071.
2. Nelson R, Jensen J, Gigli I, Tamura N (1966). "Methods for the separation, purification and measurement of nine components of hemolytic complement in guinea-pig serum". Immunochemistry 3 (2): 111–135.

## BACKGROUND

**Introduction:** Complement factor I, also known as C3B/C4B inactivator, is a protein that in humans is encoded by the CFI gene. Complement Factor I (fI) is a protein of the complement system, first isolated in 1966 in guinea pig serum[3] that regulates complement activation by cleaving cell-bound or fluid phase C3b and C4b.

**Keywords:** complement C3; Acylation Stimulating Protein Cleavage Product; ASP; C3 and PZP like alpha 2 macroglobulin domain containing protein 1; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 1; C3; CO3\_HUMAN; Complement C3; Complement C3 precursor; Complement C3c alpha" chain fragment 2; Complement Component 3; Complement factor 3; CPAMD 1; CPAMD1.

## PACKAGING

**Concentration:** Not determined

**Buffer:** 0.01M PBS, pH 7.2 containing 10mg/ml BSA

**Preservative:** 0.1% Sodium azide

**Storage:** Short-term (up to 6 months) store at 2–8° C under subdued light. Long term, aliquot and store at -20°C.

**Warning:** This product contains sodium azide, which has been classified as Xn (Harmful), in European Directive 67/548/EEC in the concentration range of 0.1 – 1.0%. When disposing of this reagent through lead or copper plumbing, flush with copious volumes of water to prevent azide build-up in drains.

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