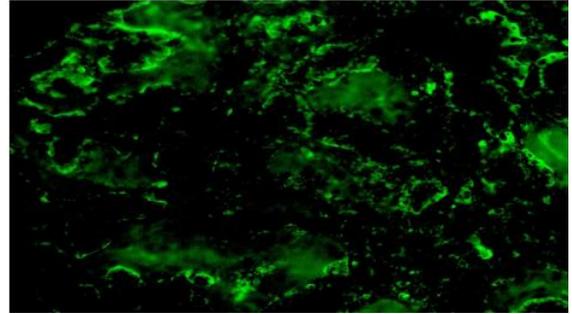


C3c\FITC

| Catalog No. | Format | Dilution | Volume |
|-------------|--------------|--------------|---------|
| G-3002-3 | Prediluted | Ready-to-use | 3.0 mL |
| G-3002-7 | Prediluted | Ready-to-use | 7.0 mL |
| G-3002-15 | Prediluted | Ready-to-use | 15.0 mL |
| G-3002-05 | Concentrated | 1:25–1:100 | 0.5 mL |
| G-3002-1 | Concentrated | 1:25–1:100 | 1.0 mL |



Inset: IF of C3c on a FFPE Lupus Erythematosus Tissue

Intended Use

This antibody is intended **for Research Use Only** and is not for diagnostic or therapeutic procedures.

Target Antigen

Derived from purified **C3c protein** isolated from normal human serum.

Product Overview

Complement component 3 (C3) is a critical protein in the immune system, forming a key part of the complement cascade and innate immunity.

- C3 glomerulopathy describes kidney conditions where C3 deposits accumulate in the glomeruli without significant immunoglobulin presence, hinting at alternative complement pathway activation.
- Variants include Dense Deposit Disease (DDD) and C3 Glomerulonephritis (C3GN), sometimes linked to hereditary defects like CFHR5 nephropathy.
- Lupus nephritis involves kidney inflammation due to Systemic Lupus Erythematosus (SLE) and typically shows immunofluorescent positivity for IgG, IgA, IgM, C3, and C1q.

Product Features

- **Type:** Rabbit Polyclonal Antibody
- **Isotype:** IgG
- **Localization:** Cytoplasmic and Membranous
- **Species Reactivity:** Human
- **Application Areas:** Studies in immune rejection and autoimmune diseases
- **Positive Control Tissues:** Placenta, Kidney, Fallopian Tube, Lupus Erythematosus

Storage Instructions: Antibody: 2–8°C; Avoid temperature fluctuations and prolonged room temperature exposure.

Specimen Preparation

FFPE Tissues:

- Use formalin-fixed, paraffin-embedded tissue sections.
- Pre-treat with antigen retrieval using GeneBio Retriever.
- Mount on positively charged slides.

Frozen Sections:

Fix sections with 100% acetone after cutting and air drying.

Preparation for Frozen Tissues Immunofluorescence (IF) Procedure:**Frozen Tissue IF Preparation:**

- Embed samples in OCT medium.
- Cut 5-micron sections.
- Place on charged slides, air dry, fix in acetone, and air dry again.

FFPE Tissue IF Preparation:

1. Mount 3–5-micron sections on charged slides.
2. Air dry for 2 hours at 58°C.
3. Deparaffinize, rehydrate, and retrieve antigens by heat.

Antigen Retrieval Methods:

- Pressure Cooker: 15 minutes at high pressure.
- Water Bath/Steamer: 30–60 minutes at 95–99°C.

Post retrieval, slides must cool at room temperature for 15–20 minutes before proceeding.

| Step | Incubation Time |
|------------------------------------|-----------------|
| Rinse in IF wash buffer | 5 minutes |
| Apply antibody (in the dark) | 30–60 minutes |
| Rinse 3 times in wash buffer | 3×15 minutes |
| Coverslip using IF mounting medium | - |

Mounting Instructions:

- Bring mounting medium to room temperature.
- Rinse slides with distilled water.
- Apply 1–3 drops of Mounting media.
- Coverslip and observe under a fluorescence microscope.
- Store slides at 2–8°C in the dark.

Precautions

- For trained professionals only.
- Contains <0.1% sodium azide—handle with appropriate safety precautions.



- Always wear PPE.
- Refer to the Safety Data Sheet and CDC guidelines for biological specimen handling.

Limitations

Performance may vary depending on fixation, retrieval method, antibody dilution, and tissue type. Always validate results with positive and negative controls under the supervision of qualified personnel



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