



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Sheep Anti-Human C3c

With HRP-conjugated Secondary Antibody

Catalog No.
DS-PB-00314

Target Species
Human

Isotype
Polyclonal IgG

Preparation

Immunogen: Human Complement 3c, purified from serum

Purification: Purified IgG prepared by affinity chromatography on Protein G

Specificity

DS-PB-00314 detects human Complement 3c, a polypeptide fragment which is present in C3. C3 plays a central role in the activation of the complement system. Processing of C3 by C3 convertase is the central reaction in both classical and alternative complement pathways, resulting in C3a and C3b. C3b can bind covalently, via its reactive thioester, to cell surface carbohydrates or immune aggregates, and help to initiate the complement cascade, potentially resulting in cellular apoptosis. C3a anaphylatoxin is a mediator of local inflammatory process. It induces the contraction of smooth muscle, increases vascular permeability and causes histamine release from mast cells and basophilic leukocytes.

C3b is rapidly split in two positions by factor I and a cofactor to form iC3b (inactivated C3b) and C3f which is released. Then iC3b is slowly cleaved (possibly by factor I) to form C3c and C3dg. Defects in C3 can result in susceptibility to pyogenic infection.

This antibody shows minimal reactivity with related serum proteins.

Formulation

Product Type: Polyclonal Antibody

Product Form: Purified Ig - liquid

Buffer Solution: Phosphate buffered saline

Preservative Stabilizers: 0.09% Sodium Azide (NaN_3)

Approx. Protein Concentrations: IgG concentration 5.0 mg/ml

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life: 18 months from date of dispatch.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	•			1/400
Immunohistology - Frozen	•			1/50
Western Blotting			•	

Note: Other applications are not tested yet. Optimal dilutions should be determined.

Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

References

1. Janssen, B. *et al.* (2005) Structures of complement component C3 provide insights into the function and evolution of immunity. *Nature* 437: 505-511.

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