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**Goat Anti-Human Complement C3c
Polyclonal Antibody**

Catalogue#	Format	Size	Concentration
CL7628AP	Purified	1 mg	1.0 mg/ml
CL7628B	Biotin	100 µg	0.1 mg/ml
CL7628HP	HRPO	100 µg	1.0 mg/ml

Isotype: Goat IgG

DESCRIPTION:

The complement system is an important factor in innate immunity. The third complement component, C3, is central to the classical, alternative and lectin pathways of complement activation. Activation products of the complement cascade contain neo-epitopes that are not present in the individual native components.

The synthesis of C3 is tissue-specific and is modulated in response to a variety of stimulatory agents. C3 is the most abundant protein of the complement system with serum protein levels of about 1.3 mg/ml. An inherited deficiency of C3 predisposes the person to frequent bacterial infections. C3 fragments are deposited in tissues at sites of antibody-mediated immunopathology. In ulcerative colitis and idiopathic chronic inflammatory bowel disease, the deposition of C3 in the diseased mucosa has been reported.

Proteolysis by C3-convertases results in the cleavage of C3 into C3a and C3b. C3b becomes attached to immune complexes and is further cleaved into iC3b and C3f. iC3b is further processed into C3c and C3dg.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from serum via Affinity Chromatography). For maximum recovery of contents, spin down tube before use.

Biotin: Biotin conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

HRPO: HRPO conjugated IgG buffered in PBS with 40% glycerol (v/v) and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. No NaN₃ with other preservatives.

STORAGE/STABILITY:

For all formats, store at + 4°C. For long term storage, aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

SPECIFICATION:

Immunogen: Complement C3c purified from normal human serum.

Specificity: This antibody is specific for human complement C3c as well as with the C3c part of native complement C3 and C3b.

Continued Overleaf....

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Applications: This antibody is suitable for use in ELISA (1:128K - 1:256K dilution) and Western Blot. This antibody has not been tested in other applications.

REFERENCES:

1. Sahu A, Lambris JD. (2001) **Structure and biology of complement protein C3, a connecting link between innate and acquired immunity.** Immunol Rev. 180:35-48.
2. Sugihara T, et al. (2010) **The increased mucosal mRNA expressions of complement C3 and interleukin-17 in inflammatory bowel disease.** Clin Exp Immunol. 160(3):386-93.

Optimum conditions for use of this antibody in analytical procedures should be established in each laboratory
For Research Use Only

JK 07/19/17