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SP1103F Polyclonal Antibody to Complement C3c - FITC

Alternate names: C3 and PZP-like alpha-2-macroglobulin domain-containing protein 1, CPAMD1, Complement component 3

Quantity: 1 ml

Concentration: 10 mg/ml

Background: The complement factor C3 consists of an alpha and a beta chain. C3 is a central factor in the complement cascade. It is central to the alternative pathway that leads to the C3 convertase C3bBb. The classical mannose binding lectin activation pathway leads to the C3 convertase C4b2a. These convertases cleave C3 resulting in C3a and C3b. Further degradation leads to the formation of the alpha chain products C3d, C3g and C3c. C3 is an acute phase protein that is produced by a wide range of tissues, including renal epithelial cells and hepatocytes.

Uniprot ID: P01024

NCBI: NP_000055

GeneID: 718

Host: Sheep

Immunogen: Human C3 purified from serum

Format:
State: Liquid purified IgG fraction
Purification: Ion exchange chromatography
Buffer System: PBS, pH 7.2 containing 0.09% Sodium Azide as preservative
Label: FITC – Fluorescein Isothiocyanate Isomer 1 (FITC)-liquid

Applications:
Immunohistochemistry on Frozen Sections: 1/50 - 1/100.
Recommended Positive Control: Human skin.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody recognises the C3c component of complement, formed as a result of the inactivation of C3b. The reagent may be used for the detection of C3 deposits in tissues following complement activation.
Species: Human.
Other species not tested.

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
This product is photosensitive and should be protected from light.
Shelf life: one year from despatch.

General Readings:
1. Kennedy MW, Kuo YM. The surfaces of the parasitic nematodes Trichinella spiralis and Toxocara canis differ in the binding of post-C3 components of human complement by the alternative pathway. Parasite Immunol. 1988 Jul;10(4):459-63. PubMed PMID: 2971916.
2. Oyeyinka GO, Awogun IA, Akande TM, Awarun JA, Arinola OG, Salimonu LS. The effects of ageing on the immune response to Schistosoma haematobium and

hookworm by measuring circulating immune complexes, C3, IgG, IgA and IgM levels in residents of Omi dam area of Kogi State, Nigeria. Afr J Med Med Sci. 2003 Sep;32(3):263-7. PubMed PMID: 15030085.