

Sheep Anti-Human C3 Polyclonal Antibody

Sheep, Polyclonal (C3)

Cat. No. DPAB0961SH

Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview: Sheep Antibody to Human Complement C3c

Antigen Description: C3 plays a central role in the activation of the complement system. Its processing by C3 convertase is the central reaction in both classical and alternative complement pathways. After activation C3b can bind covalently, via its reactive thioester, to cell surface carbohydrates or immune aggregates. Derived from proteolytic degradation of complement C3, 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.

Specificity: Unconjugated immunoglobulin gives a single arc when tested by IEP against fresh human plasma. Identity has been confirmed by double diffusion (Ouchterlony) against fresh human plasma.

Host animal: Sheep

Application: Recommended for use in direct immunofluorescence testing. Product has been evaluated against frozen sections of human skin containing C3c deposits. Dilution at 1:50-1:100 is recommended for this technique. Prepare working dilutions immediately before use. 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.

Format: FITC, Liquid

Purification: Ion-exchange chromatography. The immunoglobulin fraction is then conjugated with fluorescein isothiocyanate (FITC). Un-reacted fluorochrome is removed by gel filtration. Preservatives are added. Product 0.2µm filtered.

REFERENCES

1. Naranjo V et al. Genes differentially expressed in oropharyngeal tonsils and mandibular lymph nodes of tuberculous and nontuberculous European wild boars naturally exposed to *Mycobacterium bovis*. FEMS Immunol Med Microbiol 46:298-312.

ANTIGEN GENE INFORMATION

Gene Name: [C3 complement component 3 \[Homo sapiens\]](#)

Official Symbol: C3

Synonyms: C3 ; complement component 3; complement C3; OTTHUMP00000197086; complement component C3; acylation-stimulating protein cleavage product; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 1; ASP; AHUS5; ARMD9; CPAMD1

GeneID: [718](#)

mRNA Refseq: [NM_000064](#)

Protein Refseq: [NP_000055](#)

MIM: [120700](#)

UniProt ID: P01024

Chromosome Location: 19p13.3-p13.2

Pathway: Activation of C3 and C5; Alternative complement activation; Chagas disease (American trypanosomiasis); Class A/1 (Rhodopsin-like receptors); Complement and Coagulation Cascades; G alpha (i) signalling events; GPCR downstream signaling; Initial triggering of complement

PACKAGING

Concentration: Not determined

Buffer: PBS, pH 7.2

Preservative: 0.099% Sodium azide

Storage: Store at 2–8°C. Slight precipitation may occur upon storage, which may be removed by centrifugation and should not affect performance characteristics. Avoid exposure to light.

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.