

BP369HRP**Polyclonal Antibody to Complement 3c (C3c) -HRP-****Alternate names:**

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

Quantity:

1 ml

Concentration:

1.0 mg/ml

Background:

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.

Uniprot ID:

[P01024](#)

NCBI:

[NP_000055](#)

GeneID:

[718](#)

Host:

Sheep

Immunogen:

Complement 3c.

Format:

State: Liquid purified IgG fraction.

Purification: Affinity chromatography on Protein G.

Buffer System: PBS, pH 7.2, containing 0.01% Thiomersal as preservative.

Label: HRP

Applications:

Suitable for ELISA (1/200-1/800) and Western blotting (1/500-1/2000).

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

This antibody detects Complement 3c, a polypeptide fragment which is present in C3.

Species: Human.

Other species not tested.

Storage:

Store the antibody (undiluted) at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Should this product contain a precipitate we recommend microcentrifugation before use. Shelf life: One year from despatch.

Caution:

Do Not Use Sodium Azide as preservative.

General Readings:

1. Janssen BJ, Huizinga EG, Raaijmakers HC, Roos A, Daha MR, Nilsson-Ekdahl K, et al. Structures of complement component C3 provide insights into the function and evolution of immunity. *Nature*. 2005 Sep 22;437(7058):505-11. PubMed PMID: 16177781.