

Product datasheet for **BP369HRP**

Complement C3 (C3) Sheep Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	Suitable for ELISA (1/200-1/800) and Western blotting (1/500-1/2000).
Reactivity:	Human
Host:	Sheep
Clonality:	Polyclonal
Immunogen:	Complement 3c.
Specificity:	This antibody detects Complement 3c, a polypeptide fragment which is present in C3.
Formulation:	PBS, pH 7.2, containing 0.01% Thiomersal as preservative. Label: HRP State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Affinity chromatography on Protein G.
Conjugation:	HRP
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.
Stability:	Shelf life: One year from despatch.
Gene Name:	complement component 3
Database Link:	Entrez Gene 718 Human P01024



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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.
Synonyms:	CPAMD1, Complement component 3
Protein Families:	Druggable Genome
Protein Pathways:	Complement and coagulation cascades, Systemic lupus erythematosus