

Product datasheet for **AP32975PU-N**

Complement C3 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	FC
Recommended Dilution:	Flow Cytometry: Use 1/50 as a typical starting working dilution. Positive Control: Red Blood Cells.
Reactivity:	Porcine
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	Purified Pig C3
Specificity:	The polyclonal antibody recognizes Pig complement component C3.
Formulation:	PBS State: Purified State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 0.1% BSA Preservative: 0.02% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Database Link:	P01025



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Background:

The complement system is an important part of the humoral response in innate immunity, consisting of three different pathways. 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 complement factor C3 consists of an alpha- and a beta-chain. 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 assaults of bacterial infections. In ulcerative colitis, and idiopathic chronic inflammatory bowel disease, the deposition of C3 in the diseased mucosa has been reported. Proteolysis by certain enzymes results in the cleavage of C3 into C3a and C3b. C3b becomes attached to immune complexes and is further cleaved into iC3b, C3c, C3dg and C3f.

Synonyms:

CPAMD1, Complement component 3