

## Product datasheet for **AM01330PU-N**

### Complement C5 (C5) Mouse Monoclonal Antibody [Clone ID: 10-04]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	10-04
Applications:	ELISA, FN, WB
Recommended Dilution:	<b>ELISA.</b> <b>Western Blot.</b> <b>Functional Assays.</b>
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified Human C5
Specificity:	This antibody recognizes secreted complement component 5 (C5), a 190kDa serine protease present in blood serum. In haemolysis inhibition studies it was found that this antibody will block C5 haemolytic activity. Removal of Sodium Azide is recommended prior to use in Functional Assays.
Formulation:	Borate buffered saline State: Purified State: Liquid purified Ig fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	complement component 5
Database Link:	<a href="#">Entrez Gene 727 Human P01031</a>



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**Background:**

It is composed of an 115kDa disulphide linked alpha-chain and a 75 kDa beta-chain. In addition to its role in complement, C5 is thought to be associated with inflammation, stimulating tumour necrosis factor alpha, interferon gamma mediated suppression of IL10 and IL12 production. C5 is activated via either the classical or the alternative complement pathway, by proteolytic cleavage of C5a from the N-terminal of the alpha-chain, by C5 convertase. C5a is an anaphylotoxin which mediates local inflammation. It induces the contraction of smooth muscle, increases vascular permeability and causes histamine release from mast cells and basophilic leukocytes. It also stimulates chemotaxis of neutrophils, eosinophils, basophils and monocytes towards the site of inflammation. The remaining fragment, C5b, initiates the assembly of the membrane attack complex.

**Synonyms:**

CPAMD4, Complement component 5

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Complement and coagulation cascades, Prion diseases, Systemic lupus erythematosus