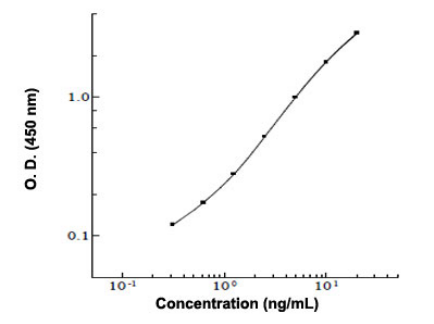
C5 (Human) ELISA Kit

Catalog # KA2114 Size 1 Kit

Applications



The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

Specification

Product Description	C5 (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human C5.
Suitable Sample	Cell Culture Samples, CSF, Milk, Plasma, Saliva and Serum
Sample Volume	50 uL
Label	Peroxidase-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	0.156 to 10 ng/mL
Reactivity	Human, Monkey
Regulation Status	For research use only (RUO)
Storage Instruction	Store components of the kit at 4°C or -20°C as described in the protocol.

Applications

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- Quantification

Gene Info — C5

Entrez GeneID	727
Gene Name	C5
Gene Alias	CPAMD4, FLJ17816, FLJ17822, MGC142298
Gene Description	complement component 5
Omim ID	120900
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is the fifth component of complement, which plays an important role in inflammatory and cell killing processes. This protein is comprised of alpha and beta polypeptide chains that are linked by a disulfide bridge. An activation peptide, C5a, which is an anaphylatoxin that possesses potent spasmogenic and chemotactic activity, is derived from the alpha polypeptide via cleavage with a convertase. The C5b macromolecular cleavage product can form a complex with the C6 complement component, and this complex is the basis for formation of the membrane attack complex, which includes additional complement components. Mutations in this gene cause complement component 5 deficiency, a disease where patients show a propensity for severe recurrent infections. Defects in this gene have also been linked to a susceptibility to liver fibrosis and to rheumatoid arthritis. [provided by RefSeq
Other Designations	OTTHUMP00000022001|anaphylatoxin C5a analog

Publication Reference

- Targeting C5AR1 disrupts complement-driven G0-phase maintenance and overcomes metabolic drug resistance in glioma.

  Yu Qian, Kai Zhao

  J Transl Med 2026 5; 24(1):0.

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- Development of the Complement C5 Assay by LC-MS/MS in Monkey Serum and Comparison with Enzyme-Linked Immunosorbent Assay.

  Kiyomi Kikuchi, Yoko Ida, Tomohiro Yamada, Yuji Mano.

  American Chemical Society omega 2024 Jan; 9(6):6797.

  Application: ELISA, Monkey, Blood samples

- Identification of potent siRNA targeting complement C5 and its robust activity in pre-clinical models of myasthenia gravis and collagen-induced arthritis.

  Yoshikazu Kuboi, Yuta Suzuki, Sotaro Motoi, Chiyuki Matsui, Naoki Toritsuka, Tomoya Nakatani, Kazuhiro Tahara, Yoshinori Takahashi, Yoko Ida, Ayaka Tomimatsu, Motohiro Soejima, Toshio Imai.

  Molecular Therapy. Nucleic Acids 2023 Mar; 31:339.

  Application: Quant, Monkey, Monkey serum

- Prevention of Anti-HMGCR Immune-Mediated Necrotising Myopathy by C5 Complement Inhibition in a Humanised Mouse Model.

  Sarah Julien, Douangsone Vadysirisack, Camil Sayegh, Sharan Ragunathan, Yalan Tang, Emma Briand, Marion Carrette, Laetitia Jean, Rachid Zoubairi, Henri Gonde, Olivier Benveniste, Yves Allenbach, Laurent Drouot, Olivier Boyer

  Biomedicines 2022 Aug; 10(8):0.

- C5a/C5aR pathway is essential for the pathogenesis of murine viral fulminant hepatitis via potentiating Fgl2/fibroleukin expression.

  Xu GL, Chen J, Yang F, Li GQ, Zheng LX, Wu YZ.

  Hepatology 2014 Jul; 60(1):114.

  Application: ELISA, Human, Serum

Pathway

- Complement and coagulation cascades
- Prion diseases
- Systemic lupus erythematosus

Disease

- Aggressive Periodontitis
- Alopecia Areata
- Arthritis

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- Asthma
- Atherosclerosis
- Autoimmune Diseases
- Birth Weight
- Brain Ischemia
- Bronchial Hyperreactivity
- Bronchiolitis
- Calcinosis
- Cardiovascular Diseases
- Celiac Disease
- Chlamydia Infections
- Chronic Periodontitis
- Coronary Artery Disease
- Coronary Disease
- Diabetes Mellitus
- Edema
- Endometriosis
- Erythema Nodosum
- Genetic Predisposition to Disease
- Giant Cell Arteritis
- Glioblastoma
- Glioma
- Glomerulonephritis
- Hepatitis C
- Hypersensitivity
- Hypertension

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- Infant
- Inflammation
- Leukemia
- Liver Cirrhosis
- Lupus Erythematosus
- Lupus Nephritis
- Lymphoma
- Macular Degeneration
- Meningeal Neoplasms
- Meningioma
- Migraine Disorders
- Neoplasms
- Obesity
- Osteoarthritis
- Osteoporosis
- Pemphigus
- Periodontitis
- Recurrence
- Respiratory Syncytial Virus Infections
- Rheumatic Heart Disease
- Sarcoidosis
- Scleroderma
- Sepsis
- Stroke
- Trachoma
- Wegener Granulomatosis

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