ImmunoBioScience Corp. (IBSC) *DATA SHEET*

C3 complement, Polyclonal rabbit-anti-human

**Catalog number:** RP-4029-01 0.5 ml Concentrated IgG 2.0 mg/ml

RP-4029-02 1.0 ml Concentrated IgG 2.0 mg/ml

**Buffer** Total IgG purified by Protein A column is supplied with 1% BSA in PBS with 0.05% azide, pH 7.4. The Prediluted antibody is supplied in our Universal antibody dilution buffer (AR-6526) green in color.

**Description**: Complement C3 is a blood test that measures the activity of a certain protein that is part of the complement system. The complement system is a group of proteins that move freely through your bloodstream. The proteins work with your immune system and play a role in the development of inflammation. The complement factor C3 consists of an alpha and a beta chain. C3 is a central factor in the complement cascade. It is central to the alternative pathway that leads to the C3 convertase C3bBb. The classical mannose binding lectin activation pathway leads to the C3 convertase C4b2a. These convertases cleave C3 resulting in C3a andC3b. Further degradation leads to the formation of the alpha chain products C3d, C3g and C3c. C3 is an acute phase protein that is produced by a wide range of tissues, including renal epithelial cells and hepatocytes.

C3 plays a central role in the activation of the complement system. Its processing by C3 convertase is the central reaction in both classical and alternative complement pathways. After activation C3b can bind covalently, via its reactive thioester, to cell surface carbohydrates or immune aggregates.

There is increasing evidence to suggest that the complement system is involved in inflammatory processes and interacts with the coagulation system, contributing to the proinflammatory and prothrombotic state which underlies the development of cardiovascular disease. Plasma levels of the central complement component C3 are associated with cardiovascular risk factors and predict myocardial infarction. C3 and its activation products are present in atherosclerotic plaques and plasma clots.

**Intended Use**: ELISA

**Storage**: 2-8°C

**Epitope:** not known

**Molecular weight of antigen:** approx.180 kDa

**Immunogen:** Purified human C3 complement

**Species reactivity:** Human, others not tested.

**Cellular Localization:**

**Recommended positive control:**

**Application:** ELISA

The optimum dilution should be determined by the individual lab.

**General References**

**Limitation and warranty:** Our warranty is limited to the actual price paid for the product. We are not liable for any property damage, personnel injury, time, effort or economic loss due to our product.

**MSDS:** This product contains 0.05 % sodium azide as a preservative, appropriate care should be taken in handling. National Institute of Occupational Safety and Health has warning that sodium azide can react with lead, copper, brass or solder in the plumbing system and forms hydrazoic acid in acidic condition. Discard with copious amount of water. Avoid skin and eye contact with all laboratory products. Use appropriate laboratory gear, lab coat , gloves and safety glasses. Do not ingest any laboratory products. This product is not approved for administration in human or animals.

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