

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Complement Component C2 in direct ELISAs and Western blots. In direct ELISAs, less than 10% cross-reactivity with recombinant mouse Complement Component C2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Complement Component C2 Ala21-Leu752 Accession # P06681
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

The classical complement pathway plays a major role in innate immunity against infection. This pathway is triggered by C1, a multimolecular complex composed of the recognition protein C1q and two serine proteases, C1r and C1s (1). After activation by C1, the single-chain form of C2 (amino acid residues 21-752) becomes two chains, which are referred to as C2A and C2B. C2A (residues 244-752) consists of a vWF domain (residues 254-452) and a serine protease domain (residues 466-752). C2B (residues 21-243) contains 3 Sushi (SCR) domains. C2A, then combines with complement factor 4B to generate the C3 or C5 convertase. The full-length of human C2 was expressed, and the purified protein corresponded to the single-chain form with the peptidase activity.

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