



Rabbit Anti-Human C2 monoclonal antibody, clone S125 (CABT-ZB506)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Specificity | It reacts with Human C2 |
| Target | C2 |
| Immunogen | Recombinant Human Complement Component C2 Protein |
| Isotype | IgG2a |
| Source/Host | Rabbit |
| Species Reactivity | Human |
| Clone | S125 |
| Purification | Protein A purified |
| Conjugate | Unconjugated |
| Applications | ELISA(cap) We recommend the following for sandwich ELISA (Capture - Detection): CABT-ZB506 - CABT-ZB878 This antibody will detect C2 in antibody pair set. [ABPR-ZB082] |
| Preparation | This antibody was obtained from a rabbit immunized with purified, recombinant Human Complement Component C2. |
| Format | Purified, Liquid |
| Concentration | Lot specific |
| Size | 50 µL, 100 µL, 1 mL |

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| Buffer | PBS |
| Preservative | None |
| Storage | This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles. |
| Ship | Wet ice |

BACKGROUND

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| Introduction | Complement component C2 is part of the classical complement pathway which plays a major role in innate immunity against infection. C2 is a glycoprotein synthesized in liver hepatocytes and several other cell types in extrahepatic tissues. This pathway is triggered by a multimolecular complex C1, and subsequently the single-chain form of C2 is cleaved into two chains referred to C2a and C2b by activated C1. The second component of complement (C2) is a multi-domain serine protease that provides catalytic activity for the C3 and C5 convertases of the classical and lectin pathways of human complement. C4b and C2 was investigated by surface plasmon resonance. C2a containing a serine protease domain combines with complement component C4b to form the C3 convertase C4b2a which is responsible for C3 activation, and leads to the stimulation of adaptive immune responses via Lectin pathway. C2 bound to C4b is cleaved by classical (C1s) or lectin (MASP2) proteases to produce C4b2a. C2 has the same serine protease domain as C4b2a but in an inactive zymogen-like conformation, requiring cofactor-induced conformational change for activity. Deficiency of C2 (C2D) is the most common genetic deficiency of the complement system, and two types of C2D have been recognized in the context of specific MHC haplotypes. C2D in human is reported to increase susceptibility to infection, and is associated with certain autoimmune diseases, such as rheumatological disorders. |
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| Keywords | C2; complement component 2; CO2; ARMD14 |
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GENE INFORMATION

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| Synonyms | C2; complement component 2; CO2; ARMD14; complement C2; C3/C5 convertase; complement component C2 |
| Entrez Gene ID | 717 |
| UniProt ID | O14523 |