



# Human C2 Protein (DAG4652)

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

## PRODUCT INFORMATION

Product Overview	Human C2 Protein
Antigen Description	C2 is central to the activation of both the classical and the lectin pathways of complement. It forms the proteolytic subunit of the C3 and C5 convertase of both pathways. Initiation of each pathway generates proteolytic enzyme complexes which are bound to
Species	Human
Purity	> 95% by SDS-PAGE
Conjugate	Unconjugated
Applications	immunogen
Format	Frozen liquid
Concentration	0.5 mg/ml (see Certificate of Analysis for exact conc.)
Buffer	10 mM sodium phosphate, 145 mM NaCl, pH 6.0
Preservative	None
Storage	2-8°C short term, -20°C long term

## BACKGROUND

Introduction	Component C2 is a serum glycoprotein that functions as part of the classical pathway of the complement system. Activated C1 cleaves C2 into C2a and C2b. The serine proteinase C2a then combines with complement factor 4b to create the C3 or C5 convertase. Deficiency of C2 has been reported to be associated with certain autoimmune diseases and SNPs in this gene have been associated with altered susceptibility to age-related macular degeneration. This gene
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localizes within the class III region of the MHC on the short arm of chromosome 6. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional transcript variants have been described in publications but their full-length sequence has not been determined.[provided by RefSeq, Mar 2009]

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**Keywords** C2; complement component 2; CO2; ARMD14; complement C2; C3/C5 convertase; complement component C2;

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