



# Rabbit Anti-Human C2 Polyclonal Antibody (CABT-L2070)

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

## PRODUCT INFORMATION

<b>Product Overview</b>	Polyclonal Antibody to Complement Component 2 (Knockout Validated)
<b>Specificity</b>	The antibody is a rabbit polyclonal antibody raised against C2. It has been selected for its ability to recognize C2 in immunohistochemical staining and western blotting.
<b>Target</b>	C2
<b>Immunogen</b>	Recombinant fragment corresponding to human C2 (Ile245~His451)
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Purification</b>	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB
<b>Format</b>	Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	200 µg
<b>Buffer</b>	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
<b>Preservative</b>	0.05% Proclin-300

<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
<b>Ship</b>	4°C with ice bags

## BACKGROUND

<b>Introduction</b>	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 associated with certain autoimmune diseases and SNPs in this gene have been associated with altered susceptibility to age-related macular degeneration. This gene 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]
<b>Keywords</b>	CO2;C3/C5 convertase

## GENE INFORMATION

<b>Gene Name</b>	C2 complement component 2 [ Homo sapiens (human) ]
<b>Official Symbol</b>	C2
<b>Synonyms</b>	C2; complement component 2; CO2; ARMD14; complement C2; C3/C5 convertase; complement component C2;
<b>Entrez Gene ID</b>	<a href="#">717</a>
<b>Protein Refseq</b>	NP_000054
<b>UniProt ID</b>	<a href="#">P06681</a>
<b>Chromosome Location</b>	6p21.3
<b>Pathway</b>	Activation of C3 and C5; Complement Activation, Classical Pathway; Complement and Coagulation Cascades; Complement and coagulation cascades; Complement cascade; Immune System; Initial triggering of complement; Innate Immune System;
<b>Function</b>	metal ion binding; serine-type endopeptidase activity;