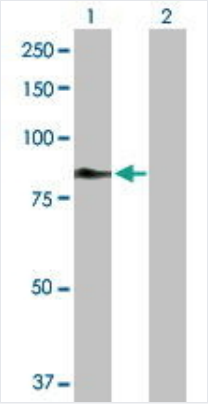
C2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	C2 (Complement C2, C3/C5 Convertase), Polyclonal Antibody
Full Product Name	C2 (Complement C2, C3/C5 Convertase)
Product Gene Name	anti-C2 antibody
Product Synonym Names	Anti -C2 (Complement C2, C3/C5 Convertase)
Immunogen Sequence	MGPLMVLFCL LFLYPGLADS APSCPQNVNI SGGTFTLSHG WAPGSLLTYS CPQGLYPSPA SRLCKSSGQW QTPGATRSLS KAVCKPVRCP APVSFENGIY TPRLGSYPVG GNVSFECEDG FILRGSPVRQ CRPNGMWDGE TAVCDNGAGH CPNPGISLGA VRTGFRFGHG DKVRYRCSSN LVLTGSSERE CQGNGVWSGT EPICRQPYSY DFPEDVAPAL GTSFSHMLGA TNPTQKTKES LGRKIQIQRS GHLNLYLLLD CSQSVSENDF LIFKESASLM VDRIFSFEIN VSVAIITFAS EPKVLMSVLN DNSRDMTEVI SSLENANYKD HENGTGTNTY AALNSVYLMM NNQMRLLGME TMAWQEIRHA IILLTDGKSN MGGSPKTAVD HIREILNINQ KRNDYLDIYA IGVGKLDVDW RELNELGSKK DGERHAFILQ DTKALHQVFE HMLDVSKLTD TICGVGNMSA NASDQERTPW HVTIKPKSQE TCRGALISDQ WVLTAAHCFR DGNDHSLWRV NVGDPKSQWG KEFLIEKAVI SPGFDVFAKK NQGILEFYGD DIALLKLAQK VKMSTHARPI CLPCTMEANL ALRRPQGSTC RDHENELLNK QSVPAHFVAL NGSKLNINLK MGVEWTSCAE VVSQEKTMFP NLTDVREVVT DQFLCSGTQE DESPCKGESG GAVFLERRFR FFQVGLVSWG LYNPCLGSAD KNSRKRAPRS KVPPPRDFHI NLFRMQPWLR QHLGDVLNFL PL
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Recognizes human C2.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	83,268 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (31865562..31913449). Location: 6p21.3
OMIM	217000
3D Structure	ModBase 3D Structure for P06681
Immunogen	Full length human C2, aa1-752 (NP_000054.2).
Product Categories/Family for anti-C2 antibody	Antibodies; Abs to Complement
Applications Tested/Suitable for anti-C2 antibody	Western Blot (WB)
Application Notes for anti-C2 antibody	Suitable for use in Western Blot.
Related Product Information for anti-C2 antibody	MBS6009580 is an antibody targeting C2. Also known as C2 (Complement C2, C3/C5 Convertase). Reactive in Human. Host: Rabbit.

Other Notes	Small volumes of anti-C2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-C2 antibody
Western Blot analysis of C2 expression in transfected 293T cell line using MBS6009580
Lane 1: C2 transfected lysate (83.3kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for C2. It may not necessarily be applicable to this product.

NCBI GI #	14550407
NCBI GeneID	717
NCBI Accession #	NP_000054.2
UniProt Primary Accession #	P06681
UniProt Secondary Accession #	O19694; Q13904; B4DPF3; B4DV20; E9PFN7
UniProt Related Accession #	P06681
GenBank Nucleotide #	NM_000063.5
NCBI Official Full Name	complement C2 isoform 1 preproprotein
NCBI Official Synonym Full Names	complement component 2
NCBI Official Symbol	C2
NCBI Official Synonym Symbols	CO2
UniProt Protein Name	Complement C2
UniProt Synonym Protein Names	C3/C5 convertase
Protein Family	Chalcone synthase
UniProt Gene Name	C2
UniProt Entry Name	CO2_HUMAN
NCBI Protein Information	complement C2; C3/C5 convertase; complement component C2
NCBI Summary for C2	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]

UniProt Comments for C2	C2: Component C2 which is part of the classical pathway of the complement system is cleaved by activated factor C1 into two fragments: C2b and C2a. C2a, a serine protease, then combines with complement factor 4b to generate the C3 or C5 convertase. Defects in C2 are the cause of complement component 2 deficiency (C2D). A deficiency of the complement classical pathway associated with the development of autoimmune disorders, mainly systemic lupus erythematosus. Skin and joint manifestations are common and renal disease is relatively rare. Patients with complement component 2 deficiency are also reported to have recurrent or invasive infections. Belongs to the peptidase S1 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted; EC 3.4.21.43; Secreted, signal peptide; Protease Chromosomal Location of Human Ortholog: 6p21.3 Cellular Component: extracellular space; extracellular region Molecular Function: metal ion binding; serine-type endopeptidase activity Biological Process: regulation of complement activation; innate immune response; proteolysis; complement activation, classical pathway; response to nutrient; complement activation Disease: Macular Degeneration, Age-related, 14; Complement Component 2 Deficiency
Research Articles on C2	**1.** These overall results suggest a lack of strong association with the C2 and C7 gene polymorphisms to the susceptibility of systemic lupus erythematosus in the Malaysian population.
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