# C2 Antibody – Mouse Monoclonal

## PRODUCT OVERVIEW

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| **Product Name** | C2, Monoclonal Antibody |
| **Full Product Name** | C2 (Complement Component 2, CO2, DKFZp779M0311) (FITC) |
| **Product Gene Name** | anti-C2 antibody |
| **Product Synonym Names** | Complement Component 2; CO2; DKFZp779M0311 |
| **Clonality** | Monoclonal |
| **Isotype** | IgG2a, lambda |
| **Clone Number** | 4G8 |
| **Host** | Mouse |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC). |
| **Purity/Purification** | Purified |
| **Specificity** | Recognizes C2. |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor<br><br>FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **Molecular Weight** | 69,444 Da |
| **OMIM** | 217000 |
| **3D Structure** | ModBase 3D Structure for P06681 |
| **Immunogen** | C2 (NP_000054.2, 21aa-243aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD. |
| **Immunogen Sequence** | APSCPQNVNISGGTFTLSHGWAPGSLLTYSCPQGLYPSPASRLCKSSGQWQTPGATRSLSKAVCKPVRCPAPVSFENGIYTPRLGSYPVGGNVSFECE |
| **Conjugate** | FITC |
| **Product Categories/Family for anti-C2 antibody** | Antibodies; Complement |
| **Applications Tested/Suitable for anti-C2 antibody** | ELISA (EIA) |
| **Application Notes for anti-C2 antibody** | Applications are based on unconjugated antibody. |
| **Related Product Information for anti-C2 antibody** | Component C2 is a serum glycoprotein that functions as part of the classical pathway of the complement system. Activated C1 cleaves C2 into C2a an diseases and SNPs in this gene have been associated with altered susceptibility to age-related macular degeneration. This gene localizes within the cl described in publications but their full-length sequence has not been determined. |

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| **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 |
| **Searchable Terms for C2 purchase** | MBS6178706 is an antibody targeting C2. Also known as C2 (Complement Component 2, CO2, DKFZp779M0311) (FITC). Host: Mouse. |

## ADDITIONAL DETAILS

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

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| **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; ARMD14 |
| **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 |
| **UniProt Comments for 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 C4b to generate the C3 or C5 convertase. |
| **Research Articles on C2** | **1.** our data indicate that C2 rs547154 polymorphism plays a protective role in the development of PCV. |
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