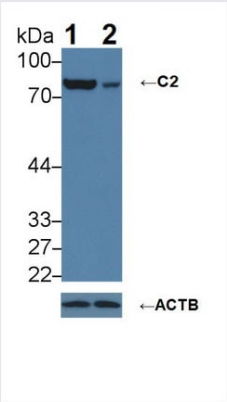
# Complement Component 2 (C2) Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | Complement Component 2 (C2), Polyclonal Antibody |
| **Full Product Name** | PE-Linked Polyclonal Antibody to Complement Component 2 (C2) |
| **Product Gene Name** | anti-C2 antibody |
| **Product Synonym Names** | CO2; C3/C5 convertase |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Concentration** | >=100ug/ml (lot specific) |
| **Matching Pairs** | Unconjugated Antibody: C2 (MBS2027818)<br>PE Conjugated Antibody: C2 (MBS2048855) |
| **Matching Pairs** | PE Conjugated Antibody: C2 (MBS2048855)<br>Immunogen: C2 (MBS2030429) |
| **Molecular Weight** | 69,444 Da |
| **OMIM** | X04481 mRNA |
| **Supply Chain Verification** | Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire. |
| **Immunogen** | C2 (Ile245~His451) |
| **Conjugation** | PE |
| **Cross Reactivity** | Human |
| **Unconjugated Antibody** | The unconjugated antibody version of this item is also available as catalog #MBS2027818 |
| **ISO Certification** | Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory. |
| **Applications Tested/Suitable for anti-C2 antibody** | Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA) |
| **Related Product Information for anti-C2 antibody** | MBS2048855 is an antibody targeting C2. Also known as PE-Linked Polyclonal Antibody to Complement Component 2 (C2). 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. |




**Knockout Validation of anti-C2 antibody**
Knockout Validation: Lane 1: Wild-type A431 cell lysate; Lane 2: C2 knockout A431 cell lysate; Predicted MW: 60,69,83kDa Observed MW: 83kDa Primary Ab: 1ug/ml Rabbit Anti-Human C2 Antibody Second Ab: 0.2ug/mL HRP-Linked Caprine Anti-Rabbit IgG Polyclonal Antibody (#MBS2086047)

## 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 #** | 28175369 |
| **NCBI GeneID** | 717 |
| **NCBI Accession #** | AAH43484.1 |
| **UniProt Secondary Accession #** | O19694; Q13904; B4DPF3; B4DV20; E9PFN7 |
| **UniProt Related Accession #** | P06681 |
| **NCBI Official Full Name** | Complement component 2 |
| **NCBI Official Synonym Full Names** | complement C2 |
| **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 |
| **NCBI Protein Information** | complement 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** | 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.** The rs2844455 A allele of C2 is a risk factor for systemic lupus erythematosus development in a Chinese population, whereas the G allele might be a protective factor. |

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