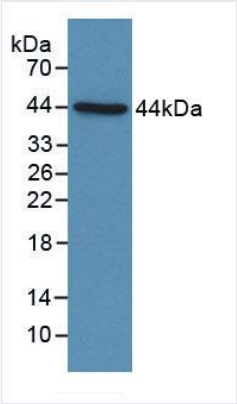
Complement Component 4d (C4D) Antibody – Rabbit Polyclonal

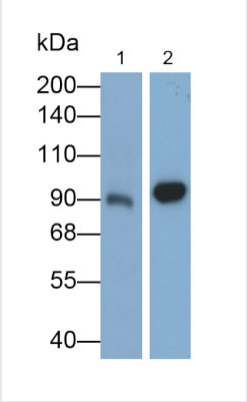
PRODUCT OVERVIEW

Product Name	Complement Component 4d (C4d), Polyclonal Antibody
Full Product Name	Polyclonal Antibody to Complement Component 4d (C4d)
Product Gene Name	anti-C4d antibody
Clonality	Polyclonal
Host	Rabbit
Form/Format	Liquid; Supplied as solution form in 0.01M PBS, pH7.4, containing 0.05% Proclin-300, 50% glycerol.
Purity/Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Concentration	0.47mg/mL (lot specific)
Preparation and Storage	**Storage:** Avoid repeated freeze/thaw cycles. Store at 4 degree C for frequent use. Aliquot and store at -20 degree C for 24 months. **Stability Test:** The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: Complement Component 4d (C4d) (MBS2090503) APC-CY7 Conjugated Secondary Antibody: Immunoglobulin G (MBS2090675)
Matching Pairs	Unconjugated Antibody: Complement Component 4d (C4d) (MBS2090503) Unconjugated Secondary Antibody: Immunoglobulin G (MBS2090678)
Matching Pairs	Unconjugated Antibody: C4d (MBS2090503) APC-CY7 Conjugated Antibody: C4d (MBS2110912)
Matching Pairs	Unconjugated Antibody: C4d (MBS2090503) PE Conjugated Antibody: C4d (MBS2110914)
Matching Pairs	Unconjugated Antibody: C4d (MBS2090503) APC Conjugated Antibody: C4d (MBS2110916)
Matching Pairs	Unconjugated Antibody: C4d (MBS2090503) Cy3 Conjugated Antibody: C4d (MBS2110918)
Matching Pairs	Unconjugated Antibody: C4d (MBS2090503) Biotin Conjugated Antibody: C4d (MBS2110920)
Matching Pairs	Unconjugated Antibody: C4d (MBS2090503) FITC Conjugated Antibody: C4d (MBS2110922)
Matching Pairs	Unconjugated Antibody: C4d (MBS2090503) HRP Conjugated Antibody: C4d (MBS2110924)
OMIM	U24578 Genomic DNA
3D Structure	ModBase 3D Structure for P0C0L5
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.

Source	Polyclonal antibody preparation
Immunogen	Recombinant C4d (Leu958~Gly1335) expressed in E.coli
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-C4d antibody	Western Blot (WB)
Application Notes for anti-C4d antibody	Western blotting: 0.01-2ug/mL Optimal working dilutions must be determined by end user.
Related Product Information for anti-C4d antibody	MBS2090503 is an antibody targeting C4d. Also known as Polyclonal Antibody to Complement Component 4d (C4d). Host: Rabbit.
Other Notes	Small volumes of anti-C4d 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-C4d antibody
Western Blot;Sample: Recombinant C4d, Human.



Western Blot (WB) of anti-C4d antibody
Western BlotSamples:Lane1: Human Plasma;Lane2: Human Plasma;Primary Ab: 0.05ug/ml Rabbit Anti-Human C4d AntibodySecond Ab: 0.2ug/ml HRP- Linked Caprine Anti-Rabbit IgG Polyclonal Antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for C4d. It may not necessarily be applicable to this product.

NCBI GI #	178557739
NCBI GeneID	721
NCBI Accession #	NP_001002029.3
UniProt Primary Accession #	P0C0L5
UniProt Secondary Accession #	P01028; P78445; Q13160; Q13906; Q14033; Q14835; Q6U2E9; Q6U2G1; Q6U2I5; Q6U2L1; A2BHY4
UniProt Related Accession #	P0C0L5
GenBank Nucleotide #	NM_001002029.3
NCBI Official Full Name	complement C4-B preproprotein
NCBI Official Synonym Full Names	complement C4B (Chido blood group)
NCBI Official Symbol	C4B
NCBI Official Synonym Symbols	CH; C4F; CO4; C4B1; C4B2; C4B3; C4B5; C4BD; C4B12; C4B_2; CPAMD3
UniProt Protein Name	Complement C4-B
UniProt Synonym Protein Names	Basic complement C4; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 3

UniProt Gene Name	C4B
UniProt Synonym Gene Names	CO4; CPAMD3
NCBI Protein Information	complement C4-B
NCBI Summary for C4d	This gene encodes the basic form of complement factor 4, part of the classical activation pathway. The protein is expressed as a single chain precursor which is proteolytically cleaved into a trimer of alpha, beta, and gamma chains prior to secretion. The trimer provides a surface for interaction between the antigen-antibody complex and other complement components. The alpha chain may be cleaved to release C4 anaphylatoxin, a mediator of local inflammation. Deficiency of this protein is associated with systemic lupus erythematosus. This gene localizes to the major histocompatibility complex (MHC) class III region on chromosome 6. Varying haplotypes of this gene cluster exist, such that individuals may have 1, 2, or 3 copies of this gene. In addition, this gene exists as a long form and a short form due to the presence or absence of a 6.4 kb endogenous HERV-K retrovirus in intron 9. [provided by RefSeq, Jul 2008]
UniProt Comments for C4d	C4B: C4 plays a central role in the activation of the classical pathway of the complement system. It is processed by activated C1 which removes from the alpha chain the C4a anaphylatoxin. The remaining alpha chain fragment C4b is the major activation product and is an essential subunit of the C3 convertase (C4b2a) and the C5 convertase (C3bC4b2a) enzymes of the classical complement pathway. Defects in C4B are a cause of susceptibility to systemic lupus erythematosus (SLE). A chronic, inflammatory and often febrile multisystemic disorder of connective tissue. It affects principally the skin, joints, kidneys and serosal membranes. It is thought to represent a failure of the regulatory mechanisms of the autoimmune system. Interindividual copy- number variation (CNV) of complement component C4 and associated polymorphisms result in different susceptibilities to SLE. The risk of SLE susceptibility has been shown to be significantly increased among subjects with only two copies of total C4. A high copy number is a protective factor against SLE. Defects in C4B are the cause of complement component 4B deficiency (C4BD). A rare defect of the complement classical pathway associated with the development of autoimmune disorders, mainly systemic lupus with or without associated glomerulonephritis. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 6p21.33 Cellular Component: axon; cell junction; dendrite; extracellular region; extracellular space; plasma membrane; synapse Molecular Function: carbohydrate binding; complement binding; endopeptidase inhibitor activity; serine-type endopeptidase activity Biological Process: complement activation; complement activation, classical pathway; detection of molecule of bacterial origin; inflammatory response; innate immune response; opsonization; proteolysis; regulation of complement activation Disease: Complement Component 4b Deficiency
Research Articles on C4d	**1.** for the first time, a complete overview of C4 in SLE from genetic variation to binding capacity using a novel test. As this test detects crossing over of Rodgers and Chido antigens, it will allow for more accurate measurement of C4 in future studies.
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