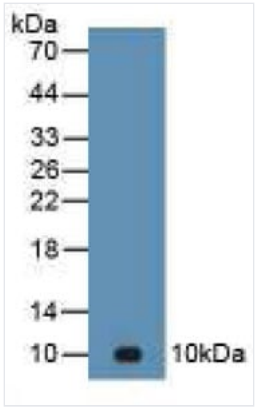
Complement Component 4b (C4B) Antibody – Rabbit Polyclonal

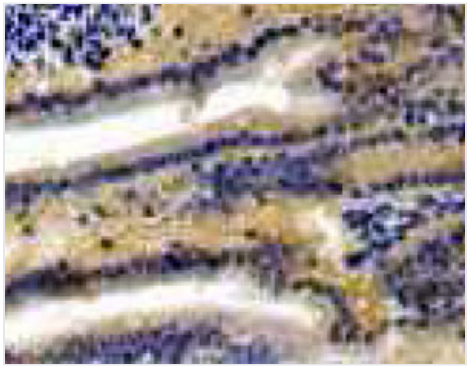
PRODUCT OVERVIEW

Product Name	Complement Component 4b (C4b), Polyclonal Antibody
Full Product Name	Polyclonal Antibody to Complement Component 4b (C4b)
Product Gene Name	anti-C4b antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as solution form in PBS, pH7.4, containing 0.02% NaN3, 50% glycerol.
Purity/Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Concentration	0.94mg/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: C4b (MBS2003827) Biotin Conjugated Antibody: C4b (MBS2003148)
Matching Pairs	Unconjugated Antibody: C4b (MBS2003827) Immunogen: C4b (MBS2010348)
Matching Pairs	Unconjugated Antibody: C4b (MBS2003827) FITC Conjugated Antibody: C4b (MBS2014937)
Matching Pairs	Unconjugated Antibody: C4b (MBS2003827) APC-CY7 Conjugated Antibody: C4b (MBS2053694)
Matching Pairs	Unconjugated Antibody: C4b (MBS2003827) PE Conjugated Antibody: C4b (MBS2053695)
Matching Pairs	Unconjugated Antibody: C4b (MBS2003827) APC Conjugated Antibody: C4b (MBS2053696)
Matching Pairs	Unconjugated Antibody: C4b (MBS2003827) Cy3 Conjugated Antibody: C4b (MBS2053697)
Matching Pairs	Unconjugated Antibody: C4b (MBS2003827) HRP Conjugated Antibody: C4b (MBS2053698)
Matching Pairs	Unconjugated Antibody: Complement Component 4b (C4b) (MBS2003827) APC-CY7 Conjugated Secondary Antibody: Immunoglobulin G (MBS2090675)
Matching Pairs	Unconjugated Antibody: Complement Component 4b (C4b) (MBS2003827) Unconjugated Secondary Antibody: Immunoglobulin G (MBS2090678)
3D Structure	ModBase 3D Structure for P01029

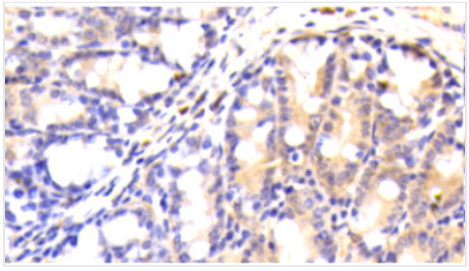
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Source	Polyclonal antibody preparation
Traits	Liquid
Cross Reactivity	Rat
Immunogen	Recombinant C4B (Gln126~Ser366) expressed in E.coli (MBS2010348)
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-C4b antibody	Western Blot (WB); Immunohistochemistry (IHC); Immunocytochemistry (ICC); Immunoprecipitation (IP).
Application Notes for anti-C4b antibody	Western blotting: 0.5-3ug/mL; Immunohistochemistry: 5-30ug/mL; Optimal working dilutions must be determined by end user.
Related Product Information for anti-C4b antibody	MBS2003827 is an antibody targeting C4b. Also known as Polyclonal Antibody to Complement Component 4b (C4b). Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-C4b 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-C4b antibody
Western Blot;Sample: Recombinant C4b, Mouse.



Immunohistochemistry (IHC) of anti-C4b antibody
DAB staining on IHC-P;Samples: Mouse Small intestine Tissue;Primary Ab: 30ug/ml Rabbit Anti-Mouse C4a AntibodySecond Ab: 2ug/mL HRP-Linked Caprine Anti-Rabbit IgG Polyclonal Antibody (Catalog: MBS2086047)



Immunohistochemistry (IHC) of anti-C4b antibody
DAB staining on IHC-P;Samples: Mouse Colon Tissue;Primary Ab: 30ug/ml Rabbit Anti-Mouse C4a AntibodySecond Ab: 2ug/mL HRP-Linked Caprine Anti-Rabbit IgG Polyclonal Antibody (Catalog: MBS2086047)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for C4b. It may not necessarily be applicable to this product.

NCBI GI #	157951698
NCBI GeneID	12268

NCBI Accession #	NP_033910.2
UniProt Primary Accession #	P01029
UniProt Secondary Accession #	O70346; Q31201; Q3TYY1; Q3TZC9; Q61372; Q61859; Q62353; Q6NWV8; E9QKK7
UniProt Related Accession #	P01029
GenBank Nucleotide #	NM_009780.2
NCBI Official Full Name	complement C4-B
NCBI Official Synonym Full Names	complement component 4B (Chido blood group)
NCBI Official Symbol	C4b
NCBI Official Synonym Symbols	C4; Ss
UniProt Protein Name	Complement C4-B
Protein Family	Complement C4
UniProt Gene Name	C4b
UniProt Synonym Gene Names	C4
NCBI Protein Information	complement C4-B
UniProt Comments for C4b	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: 17 B1|17 18.29 cM Cellular Component: axon; cell soma; dendrite; extracellular region; extracellular space; synapse Molecular Function: carbohydrate binding; complement binding; complement component C1q binding Biological Process: complement activation; immunoglobulin mediated immune response
Research Articles on C4b	**1.** C4 mediated synapse elimination during postnatal development
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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