Complement C4B (C4B) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Complement C4B (C4B), Polyclonal Antibody
Full Product Name	APC_Cy7 Linked Polyclonal Antibody to Complement C4B (C4B)
Product Gene Name	anti-C4B antibody
Product Synonym Names	C4B/Complement C4B; CO4; CPAMD3; Basic complement C4; C3 and PZPlike alpha2macroglobulin domaincontaining protein 3; Complement component 4B, Chido blood group
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Purity/Purification	Affinity Chromatography
Concentration	>=0.1mg/mL (Please refer to the vial label for the specific concentration.) (lot specific)
Specificity	The antibody is a rabbit polyclonal antibody raised against C4B. It has been selected for its ability to recognize C4B in immunohistochemical staining and western blotting.
Preparation and Storage	Store at 2 degree C to 8 degree C for frequent use, 20 degree C for 24 months 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 (MBS2139591) APC-CY7 Conjugated Antibody: C4B (MBS2132858)
Chromosome Location	Chromosome: 17; NC_000083.6 (34728380..34743897, complement). Location: 17 B1; 17 18.29 cM
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.
Conjugation	APC Cy7
Product Categories/Family for anti-C4B antibody	Metabolic pathway; Infection immunity; Immune molecule; Primary, APC/Cy6800 labeled
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	WB: 0.22ug/mL; 1:2502500 IHC: 520ug/mL; 1:25100 ICC: 520ug/mL; 1:25100
Related Product Information for anti-C4B antibody	MBS2132858 is an antibody targeting C4B. Also known as APC_Cy7 Linked Polyclonal Antibody to Complement C4B (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.

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
UniProt Entry Name	CO4B_MOUSE
NCBI Protein Information	complement C4-B; complement component 4 (within H-2S); complement component 4B (Childo blood group)
UniProt Comments for C4B	Function: Non-enzymatic component of C3 and C5 convertases and thus essential for the propagation of the classical complement pathway. Covalently binds to immunoglobulins and immune complexes and enhances the solubilization of immune aggregates and the clearance of IC through CR1 on erythrocytes. Catalyzes the transacylation of the thioester carbonyl group to form ester bonds with carbohydrate antigens By similarity. Subunit structure: Circulates in blood as a disulfide-linked trimer of an alpha, beta and gamma chain. Subcellular location: Secreted. Post-translational modification: Prior to secretion, the single-chain precursor is enzymatically cleaved to yield non-identical chains alpha, beta and gamma. During activation, the alpha chain is cleaved by C1 into C4a and C4b, and C4b stays linked to the beta and gamma chains. Further degradation of C4b by C1 into the inactive fragments C4c and C4d blocks the generation of C3 convertase. Miscellaneous: C4 is a major histocompatibility complex class-III protein. Sequence similarities: Contains 1 anaphylatoxin-like domain.Contains 1 NTR domain.
Research Articles on C4B	**1.** a deficiency in C4b does not alter radiation-induced lung disease in the C57BL/6 mouse model
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