

Rabbit C4B Polyclonal Antibody | anti-C4A antibody

C4B Antibody (Center)

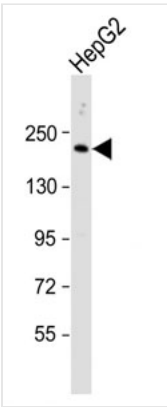
CATALOG # AAA287411	HOST Rabbit	REACTIVITY Tested: Human; Predicted: Human	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

C4B; Polyclonal Antibody; C4B Antibody (Center); Complement C4-A; Acidic complement C4; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 2; Complement C4 beta chain; Complement C4-A alpha chain; C4a anaphylatoxin; C4b-A; C4d-A; Complement C4 gamma chain; C4A; CO4; CPAMD2; anti-C4A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Tested: Human; Predicted: Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This C4B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 655-684 amino acids from the Central region of human C4B.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	655-684
Sequence Length	1,698
Applicable Applications for anti-C4A antibody	ELISA, WB (Western Blot)
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. C4A isotype is responsible for effective binding to form amide bonds with immune aggregates or protein antigens, while C4B isotype catalyzes the transacylation of the thioester carbonyl group to form ester bonds with carbohydrate antigens.
Cellular Location	Secreted. Cell junction, synapse. Cell projection, axon. Cell projection, dendrite
Tissue Location	Complement component C4 is expressed at highest levels in the liver, at moderate levels in the adrenal cortex, adrenal medulla, thyroid gland, and the kidney, and at lowest levels in the heart, ovary, small intestine, thymus, pancreas and spleen. The extra-hepatic sites of expression may be important for the local protection and inflammatory response
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)
Anti-C4 Antibody (Center) at 1:2000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 ug per lane.Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.Predicted band size: 193 kDaBlocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-C4A antibody	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.
Product Categories/Family for anti-C4A antibody	Immunology
References	Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Fernando, M.M., et al. Hum. Mutat. 31(7):866-874(2010) Mostafa, G.A., et al. J. Neuroimmunol. 223 (1-2), 115-119 (2010) : Hamad, O.A., et al. J. Immunol. 184(5):2686-2692(2010) Mougey, R. Immunohematology 26(1):30-38(2010)

NCBI AND UNIPROT INFORMATION

NCBI GI #	178557739
NCBI GeneID	721
NCBI Accession #	NP_001002029.3; NP_001239133.1; NP_009224.2
NCBI GenBank Nucleotide #	NM_001002029.3
UniProt Accession #	P0C0L4; P01028; P78445; Q13160; Q13906; A6H8M8; A6NHJ5; A7E2V2; B0QZR6; B0V2C8; B2RUT6; B7ZVZ6; POC0L5
Molecular Weight	192785
NCBI Official Full Name	complement C4-B preproprotein
NCBI Official Synonym Full Names	complement component 4B (Chido blood group)
NCBI Official Symbol	C4B
NCBI Official Synonym Symbols	CH; C4F; CO4; C4B1; C4B2; C4B3; C4B5; C4BD; C4B12; C4B_2; CPAMD3
NCBI Protein Information	complement C4-B

UniProt Protein Name	Complement C4-A
UniProt Gene Name	C4A
UniProt Synonym Gene Names	CO4; CPAMD2
UniProt Entry Name	CO4A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/c4b-antibody-western-blot-elisa/287411>