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anti-C5 antibody (AA 1-77)





Overview

Quantity:	100 μg
Target:	C5
Binding Specificity:	AA 1-77
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This C5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	
Purpose:	Rabbit IgG polyclonal antibody for Complement C5(C5) detection. Tested with WB, IHC-P in Rat.
Immunogen:	E.coli-derived rat C5a recombinant protein (Position: D1-R77). Rat C5a shares 62% and 82%
	amino acid (aa) sequences identity with human and mouse C5a, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Complement C5(C5) detection. Tested with WB, IHC-P in Rat.
	Gene Name: complement component 5
	Protein Name: Complement C5
Purification:	Immunogen affinity purified.

Target Details

Target:	C5
Alternative Name:	C5 (C5 Products)
Background:	C5a is a protein fragment released from complement component C5. This gene is mapped to
	9q33.2. The protein encoded by this gene is the fifth component of complement, which plays ar
	important role in inflammatory and cell killing processes. This protein is comprised of alpha and
	beta polypeptide chains that are linked by a disulfide bridge. An activation peptide, C5a, which is
	an anaphylatoxin that possesses potent spasmogenic and chemotactic activity, is derived from
	the alpha polypeptide via cleavage with a convertase. C5a plays a key role in increasing
	migration and adherence of neutrophils and monocytes to vessel walls. Mutations in this gene
	cause complement component 5 deficiency, a disease where patients show a propensity for
	severe recurrent infections. Defects in this gene have also been linked to susceptibility to liver
	fibrosis and to rheumatoid arthritis.
	Synonyms: Anaphylatoxin C5a analog antibody Anaphylatoxin C5a antibody C3 and PZP-like
	alpha-2-macroglobulin domain-containing protein 4 antibody C5 antibody C5a
	antibody CO5_HUMAN antibody Complement C5 alpha" chain antibody Complement C5
	antibody Complement component C5 antibody Complement component C5a antibody CPAMD
	4 antibody CPAMD4 antibody
Gene ID:	362119
UniProt:	P08650
Pathways:	Complement System, Carbohydrate Homeostasis
Application Details	
Application Notes:	WB: Concentration: 0.1-0.5 μg/mL, Tested Species: Rat, The detection limit for C5a is
	approximately 0.25 ng/lane under reducing conditions.
	IHC-P: Concentration: 0.5-1 μg/mL, Tested Species: Rat, Epitope Retrieval by Heat: Boiling the
	paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of
	formalin/paraffin sections.
	Notes: Tested Species: Species with positive results. Other applications have not been tested.
	Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by
	ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 $\mu g/mL$.
Concentration:	500 μg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Images

100KD — 70KD — 55KD — 35KD — — 25KD —

Western Blotting

Image 1. Anti- C5A antibody, Western blotting All lanes: Anti C5A at 0.5ug/ml WB: Recombinant Rat C5A Protein 0.5ng Predicted bind size: 37KD Observed bind size: 37KD

130KD -

100KD-

70KD-

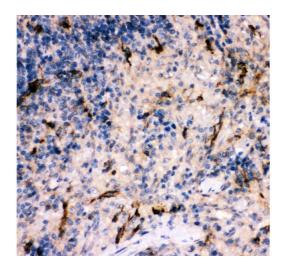
55KD-

35KD-

25KD-

Western Blotting

Image 2. Anti- C5A antibody, Western blotting All lanes: Anti C5A at 0.5ug/ml WB: Rat Liver Tissue Lysate at 50ug Predicted bind size: 115KD Observed bind size: 115KD



Immunohistochemistry

Image 3. Anti- C5A antibody, IHC(P) IHC(P): Rat Spleen Tissue