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anti-C3 antibody (AA 1551-1663)

Publications Images

С3



Overview

Quantity:	100 μL
Target:	C3
Binding Specificity:	AA 1551-1663
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This C3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Target:

1 Toddet Details	
Immunogen:	KLH conjugated synthetic peptide derived from human Complement C3 alpha chain
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Cow,Pig,Horse,Rabbit,Guinea Pig
Purification:	Purified by Protein A.
Target Details	

Target Details

Target Details	
Alternative Name:	Complement C3 (C3 Products)
Background:	Synonyms: ASP, C3a, C3b, AHUS5, ARMD9, CPAMD1, HEL-S-62p, Complement C3, C3 and PZP
	like alpha-2-macroglobulin domain-containing protein 1, C3
	Background: C3 plays a central role in the activation of the complement system. Its processing
	by C3 convertase is the central reaction in both classical and alternative complement
	pathways. After activation C3b can bind covalently, via its reactive thioester, to cell surface
	carbohydrates or immune aggregates. Derived from proteolytic degradation of complement C3
	C3a anaphylatoxin is a mediator of local inflammatory process. In chronic inflammation, acts
	as a chemoattractant for neutrophils (By similarity). It induces the contraction of smooth
	muscle, increases vascular permeability and causes histamine release from mast cells and
	basophilic leukocytes. C3-beta-c: Acts as a chemoattractant for neutrophils in chronic
	inflammation. Acylation stimulating protein: adipogenic hormone that stimulates triglyceride
	(TG) synthesis and glucose transport in adipocytes, regulating fat storage and playing a role in
	postprandial TG clearance. Appears to stimulate TG synthesis via activation of the PLC, MAPK
	and AKT signaling pathways. Ligand for C5AR2. Promotes the phosphorylation, ARRB2-
	mediated internalization and recycling of C5AR2 (PubMed:837664, PubMed:29953,
	PubMed:959512, PubMed:1432298, PubMed:15833747, PubMed:16333141, PubMed:1961575)
Gene ID:	718
UniProt:	P01024
Pathways:	Complement System, Regulation of Leukocyte Mediated Immunity, Positive Regulation of
	Immune Effector Process, Regulation of G-Protein Coupled Receptor Protein Signaling
Application Details	
Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 μg/μL

Handling

Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

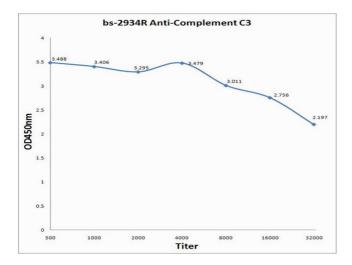
Publications

Product cited in:

Rogińska, Kawa, Pius-Sadowska, Lejkowska, Łuczkowska, Wiszniewska, Kaarniranta, Paterno, Schmidt, Machaliński, Machalińska: "Depletion of the Third Complement Component Ameliorates Age-Dependent Oxidative Stress and Positively Modulates Autophagic Activity in Aged Retinas in a Mouse Model." in: **Oxidative medicine and cellular longevity**, Vol. 2017, pp. 5306790, (2018) (PubMed).

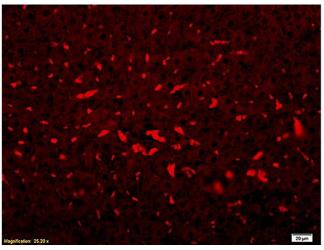
Zhuang, Han, Li, Kienhöfer, Lee, Shumyak, Meyerholz, Rosadzinski, Rosner, Chan, Xu, Segal, Sobel, Yang, Hoffmann, Reeves: "A Novel Mechanism for Generating the Interferon Signature in Lupus: Opsonization of Dead Cells by Complement and IgM." in: **Arthritis & rheumatology** (Hoboken, N.J.), Vol. 68, Issue 12, pp. 2917-2928, (2016) (PubMed).

Trang, Hirai, Nabeta, Fuke, Yamaguchi: "Membranoproliferative glomerulonephritis in a calf with nephrotic syndrome." in: **Journal of comparative pathology**, Vol. 151, Issue 2-3, pp. 162-5, (2014) (PubMed).



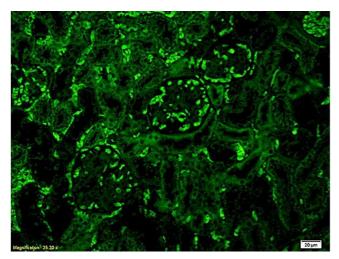
ELISA

Image 1. Antigen: 0.2 μg/100 μL Primary: Antiserum, 1:500, 1:1000, 1:2000, 1:4000, 1:8000, 1:16000, 1:32000; Secondary: HRP conjugated Goat Anti-Rabbit IgG at 1: 5000; TMB staining; Read the data in MicroplateReader by 450nm.



Immunofluorescence

Image 2. Formalin-fixed and paraffin embedded rat liver labeled with Anti-C3 Polyclonal Antibody, Unconjugated (ABIN681913) at 1:200 followed by conjugation to the secondary antibody Goat Anti-Rabbit IgG, PE conjugated used at 1:200 dilution for 40 minutes at 37°C



Immunofluorescence

Image 3. Formalin-fixed and paraffin embedded mouse kidney labeled with Anti-C3 Polyclonal Antibody, Unconjugated (ABIN681913) at 1:200 followed by conjugation to the secondary antibody Goat Anti-Rabbit IgG, FITC conjugated used at 1:200 dilution for 40 minutes at 37°C