antibodies





Overview

Quantity:	100 µL
Target:	Complement Factor H (CFH)
Binding Specificity:	AA 20-270
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Complement Factor H antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Product Details	
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 20-270 of
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 20-270 of human Complement factor H (NP_001014975.1).
Immunogen: Sequence:	
	human Complement factor H (NP_001014975.1).
	human Complement factor H (NP_001014975.1). DCNELPPRRN TEILTGSWSD QTYPEGTQAI YKCRPGYRSL GNVIMVCRKG EWVALNPLRK
	human Complement factor H (NP_001014975.1). DCNELPPRRN TEILTGSWSD QTYPEGTQAI YKCRPGYRSL GNVIMVCRKG EWVALNPLRK CQKRPCGHPG DTPFGTFTLT GGNVFEYGVK AVYTCNEGYQ LLGEINYREC DTDGWTNDIP
	human Complement factor H (NP_001014975.1). DCNELPPRRN TEILTGSWSD QTYPEGTQAI YKCRPGYRSL GNVIMVCRKG EWVALNPLRK CQKRPCGHPG DTPFGTFTLT GGNVFEYGVK AVYTCNEGYQ LLGEINYREC DTDGWTNDIP ICEVVKCLPV TAPENGKIVS SAMEPDREYH FGQAVRFVCN SGYKIEGDEE MHCSDDGFWS
	human Complement factor H (NP_001014975.1). DCNELPPRRN TEILTGSWSD QTYPEGTQAI YKCRPGYRSL GNVIMVCRKG EWVALNPLRK CQKRPCGHPG DTPFGTFTLT GGNVFEYGVK AVYTCNEGYQ LLGEINYREC DTDGWTNDIP ICEVVKCLPV TAPENGKIVS SAMEPDREYH FGQAVRFVCN SGYKIEGDEE MHCSDDGFWS KEKPKCVEIS CKSPDVINGS PISQKIIYKE NERFQYKCNM GYEYSERGDA VCTESGWRPL
Sequence:	human Complement factor H (NP_001014975.1). DCNELPPRRN TEILTGSWSD QTYPEGTQAI YKCRPGYRSL GNVIMVCRKG EWVALNPLRK CQKRPCGHPG DTPFGTFTLT GGNVFEYGVK AVYTCNEGYQ LLGEINYREC DTDGWTNDIP ICEVVKCLPV TAPENGKIVS SAMEPDREYH FGQAVRFVCN SGYKIEGDEE MHCSDDGFWS KEKPKCVEIS CKSPDVINGS PISQKIIYKE NERFQYKCNM GYEYSERGDA VCTESGWRPL PSCEEKSCDN P
Sequence: Isotype:	human Complement factor H (NP_001014975.1). DCNELPPRRN TEILTGSWSD QTYPEGTQAI YKCRPGYRSL GNVIMVCRKG EWVALNPLRK CQKRPCGHPG DTPFGTFTLT GGNVFEYGVK AVYTCNEGYQ LLGEINYREC DTDGWTNDIP ICEVVKCLPV TAPENGKIVS SAMEPDREYH FGQAVRFVCN SGYKIEGDEE MHCSDDGFWS KEKPKCVEIS CKSPDVINGS PISQKIIYKE NERFQYKCNM GYEYSERGDA VCTESGWRPL PSCEEKSCDN P

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Target Details	
Target:	Complement Factor H (CFH)
Alternative Name:	CFH (CFH Products)
Background:	This gene is a member of the Regulator of Complement Activation (RCA) gene cluster and encodes a protein with twenty short consensus repeat (SCR) domains. This protein is secreted into the bloodstream and has an essential role in the regulation of complement activation, restricting this innate defense mechanism to microbial infections. Mutations in this gene have been associated with hemolytic-uremic syndrome (HUS) and chronic hypocomplementemic nephropathy. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.,CFH,AHUS1,AMBP1,ARMD4,ARMS1,CFHL3,FH,FHL1,HF,HF1,HF2,HUS,Immunology & Inflammation,Cell Intrinsic Innate Immunity Signaling Pathway,CFH
Molecular Weight:	51 kDa/139 kDa
Gene ID:	3075
UniProt:	P08603
Pathways:	Complement System, Cellular Response to Molecule of Bacterial Origin
Application Details	
Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
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 freeze / thaw cycles

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

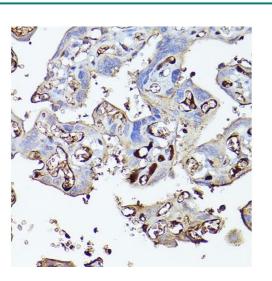
-20 °C

Storage:

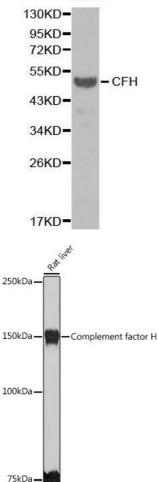
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Huang, Wang, Li, Wang, Yan, Zhang, Wang, Huang, Jia, Lu, Liu, Chen, Li, Cai, Jiang, Jin, Bai: " Osteoblasts secrete Cxcl9 to regulate angiogenesis in bone." in: **Nature communications**, Vol. 7, pp. 13885, (2018) (PubMed).

Images







Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human placenta using Complement factor H Rabbit pAb (ABIN3023096, ABIN3023097, ABIN3023098 and ABIN6219387) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

Western Blotting

Image 2. Western blot analysis of extracts of HepG2 cell line, using CFH antibody.

Western Blotting

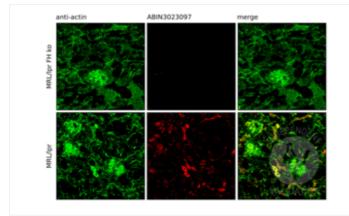
Image 3. Western blot analysis of extracts of Rat liver, using Complement factor H antibody (ABIN3023096, ABIN3023097, ABIN3023098 and ABIN6219387) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 30s.

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NDEPENDENA	Successfully validated (Immunofluorescence (IF))
	by Alexander Lab, Jacobs School of Medicine and Biomedical Sciences, Department of
	Medicine, University of Buffalo
VALIDATION	Report Number: 101403
CUSTOMER VALIDATION N° DATE 101403 19/07/17	Date: Jul 19 2017
Target:	Commplement Factor H
Lot Number:	4390101
Method validated:	Immunofluorescence (IF)
Positive Control:	MRL/Ipr lupus mice (14 weeks of age)
Negative Control:	FH knockout MRL/lpr lupus mice
Notes:	Passed. The complement factor H antibody ABIN3023097 works very well on murine kidney
	samples and shows the expected CFH localization and strong staining.
Primary Antibody:	ABIN3023097
Secondary Antibody:	goat anti-rabbit rhodamine conjugated antibody (ThermoFisher Scientific, T-2769, lot 6251)
Protocol:	• Prepare kidneys of wt and complement factor H ko MRL/lpr lupus mice of 14 weeks of age.
	• Snap-freeze kidneys in 2-methylbutane cooled on dry ice and keep at -80°C until use.
	Sections were cut at 8µm using the cryostat.Dry sections for 30min at RT.
	 Hydrate sections in PBS 2x for 15min at RT.
	• Fix cryostat sections with 4% paraformaldehyde (PFA) for 15min at RT.
	• Wash sections 2x with PBS for 15min at RT.
	Incubate sections with primary rabbit anti-Complement Factor H antibody (antibodies-online
	ABIN3023097, 0004390101) diluted 1:100 in PBS ON at 4°C.
	Wash sections 2x for 15min with PBS.
	 Incubate sections with secondary goat anti-rabbit rhodamine conjugated antibody (Therme-Fisher Scientific T 2760, let 6251) diluted 1:100 in DRS for 20min at DT
	(ThermoFisher Scientific, T-2769, lot 6251) diluted 1:100 in PBS for 30min at RT.Wash sections 2x for 15min with PBS.
	 Incubate sections with ActinGreen 488 ReadyProbes Reagent (ThermoFisher Scientific,
	R37122, lot 1700569) diluted 1:100 in PBS for 30min at RT.
	Wash sections 2x for 15min with PBS.
	Image acquisition on a Zeiss microscope (Carl Zeiss, Oberkochen, Germany).



Validation image no. 1 for anti-Complement Factor H (CFH) (AA 20-270) antibody (ABIN3023097)

IF staining with ABIN3023097 of kidneys harvested from 14 week old MRL/Ipr mice sufficient and deficient in factor H. Cryosections were fixed, stained and images acquired as described in the protocol.

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