Mouse Anti-Human Complement Factor H Monoclonal Antibody

Cat. No. CAB11509MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse Monoclonal Antibody to Human Complement Factor H
Species	Human
Source	Mouse
Antigen Description	Complement factor H, also known as H factor 1, and CFH, is a secreted protein which contains 20 Sushi (CCP / SCR) domains. It is a large soluble glycoprotein that circulates in human plasma (at a concentration of 500–800 micrograms per milliliter). The main job of CFH is to regulate the Alternative Pathway of the complement system, ensuring that the complement system is directed towards pathogens and does not damage host tissue. CFH regulates complement activation on self cells by possessing both cofactor activity for the Factor I mediated C3b cleavage, and decay accelerating activity against the alternative pathway C3 convertase, C3bBb. CFH protects self cells from complement activation but not bacteria/viruses. Due to the central role that CFH plays in the regulation of complement, there are many clinical implications arrising from aberrant CFH activity. Defects in CFH are the cause of complement factor H deficiency (CFH deficiency) and hemolytic-uremic syndrome (HUS). Genetic variation in CFH is associated with age-related macular degeneration type 4 (ARMD4) which is a multifactorial eye disease and the most common cause of irreversible vision loss in the developed world.
Specificity	Human Complement Factor H / CFH. No cross-reactivity with human cell lysate (293

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	cell line) in ELISA.
Immunogen	Recombinant Human Complement Factor H / CFH Protein
Isotype	Mouse IgG1
Clone	9F6F3
Applications	WB
Dilution	This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Human CFH in WB. Using a DAB detection system, the detection limit for Human CFH is approximately 20 ng/lane under non-reducing conditions and 4 ng/lane under reducing conditions.
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, human cell-derived, recombinant Human Complement Factor H / CFH. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70°C. Preservative-Free.Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	CFH complement factor H [Homo sapiens]

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Official Symbol	CFH
Synonyms	CFH; complement factor H; H factor 1 (complement) , HF, HF1, HF2; age related maculopathy susceptibility 1; ARMS1; beta 1H; FHL1; H factor 2 (complement); HUS; beta-1H; factor H; factor H-like 1; beta-1-H-globulin; H factor 1 (complement); adrenomedullin binding protein; complement factor H, isoform b; age-related maculopathy susceptibility 1; FH; HF; HF1; HF2; AHUS1; AMBP1; ARMD4; CFHL3; MGC88246;
Gene ID	3075
mRNA Refseq	NM_000186
Protein Refseq	NP_000177
MIM	134370
UniProt ID	P08603
Chromosome Location	1q32
Pathway	Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Complement cascade, organism-specific biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; Regulation of Complement cascade, organism-specific biosystem; Staphylococcus aureus infection, organism-specific biosystem;

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