

Product datasheet for **AM32976FC-N**

Complement factor H (CFH) Mouse Monoclonal Antibody [Clone ID: 1A2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1A2
Applications:	ELISA, IHC, WB
Recommended Dilution:	Immuno Assays. Western blot. Immunohistochemistry on Frozen Sections. The typical starting working dilution is 1/50.
Reactivity:	Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Mouse factor H-human IgG fusion protein.
Specificity:	The monoclonal antibody 1A2 recognizes Mouse complement factor H (CFH).
Formulation:	PBS Label: FITC State: Purified State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 0.1% BSA Preservative: 0.02% Sodium Azide
Concentration:	lot specific
Conjugation:	FITC
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	complement component factor h
Database Link:	Entrez Gene 12628 Mouse P06909



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Background:

CFH is the first regulatory protein of the alternative pathway of the complement system. There are three pathways of complement activation; classical, alternative, and lectin activation pathway. These pathways converge to form C3/C5 convertases that generate C3a, C3b, C5a, and C5b, each with substantial biologic activity. Complement regulators are necessary to prevent the injudicious production of these mediators and potential injury to self-tissue. The plasma proteins CFH, C4-binding protein and the cell membrane proteins complement receptor 1 (CR1; CD35), decay-accelerating factor (CD55), and membrane co-factor protein (CD46) all are members of the regulators of complement activation family. These proteins have natural affinity for C3b and/or C4b, which confers on them the ability to accelerate the intrinsic decay of C3/C5 convertases and/or act as co-factor for the cleavage and inactivation (i) of C3b and C4b by complement factor I (CFI). Genetic human analyses reveals a clear association of CFH with different human diseases. These include diseases of the kidney, the atypical form of Hemolytic Uremic Syndrome (aHUS) and membranoproliferative glomerulonephritis (MPGN). Furthermore, CFH is associated with age-related macular degeneration (AMD), a disease of the eye.

Synonyms:

CFH, HF, HF1, HF2, H factor 1