

Product datasheet for **AM01335PU-N**

Factor I (CFI) Mouse Monoclonal Antibody [Clone ID: 3R/8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3R/8
Applications:	ELISA, FN, IHC, WB
Recommended Dilution:	ELISA: 1/3000 - 1/4000. Western Blot. Functional Assays. Immunohistochemistry on frozen sections. Recommended Positive Control: Kidney from post streptoccal glomerulonephritis patients.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Native human factor I from serum.
Specificity:	This antibody recognises complement factor I, a member of the peptidase S1 family present in the blood plasma.
Formulation:	Borate buffered saline pH 8.4 containing 0.02% Sodium Azide State: Purified State: Liquid purified Ig
Concentration:	lot specific
Purification:	Affinity chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	complement factor I
Database Link:	Entrez Gene 3426 Human P05156



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Background:

Factor I is an 88 kDa protein consisting of one polypeptide chain of 35.4 kDa and one of 27.6 kDa. Factor I is a serine protease which inactivates complement components C3b and C4b. C3b cleavage requires the presence of cofactors complement component (3b/4b) receptor 1 (CR1), membrane cofactor protein or factor H, while C4b cleavage requires complement component 4 binding protein or CR1. Factor I has no natural inhibitors. Dysfunctional factor I can lead to uncontrolled activation of the alternative complement pathway causing in systemic depletion of C3 and lower levels of factors B and H, resulting in recurrent pyogenic infections. Defects in CFI are also associated with haemolytic uraemic syndrome.

Synonyms:

CFI, IF, KAF, AHUS3, C3BINA, C3b-INA

Note:

This antibody blocks function of complement factor I. Removal of Sodium Azide is recommended prior to use in functional assays.