

AM01335PU-N**Monoclonal Antibody to Complement factor I - Purified**

Alternate names:	AHUS3, C3B/C4B inactivator, C3BINA, C3b-INA, CFI, IF, KAF
Quantity:	0.1 mg
Concentration:	1.0mg/ml
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.
Uniprot ID:	P05156
NCBI:	NP_000195.2
GeneID:	3426
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	3R/8
Immunogen:	Native human factor I from serum.
Format:	State: Liquid purified Ig Purification: Affinity chromatography on Protein A Buffer System: Borate buffered saline pH 8.4 containing 0.02% Sodium Azide
Applications:	ELISA: 1/3000 - 1/4000. Western Blot. Functional Assays. Immunohistochemistry on frozen sections. Recommended Positive Control: Kidney from post streptococcal glomerulonephritis patients. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises complement factor I, a member of the peptidase S1 family present in the blood plasma. Species: Human. Other species not tested.
Add. Information:	This antibody blocks function of complement factor I. Removal of Sodium Azide is recommended prior to use in functional assays.

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.

Shelf life: one year from despatch.

General Readings:

1. Dragon-Durey MA, Frémeaux-Bacchi V. Atypical haemolytic uraemic syndrome and mutations in complement regulator genes. *Springer Semin Immunopathol.* 2005 Nov;27(3):359-74. Epub 2005 Nov 11. PubMed PMID: 16189652.
2. Nilsson SC, Karpman D, Vaziri-Sani F, Kristoffersson AC, Salomon R, Provot F, et al. A mutation in factor I that is associated with atypical hemolytic uremic syndrome does not affect the function of factor I in complement regulation. *Mol Immunol.* 2007 Mar;44(8):1835-44. Epub 2006 Nov 7. PubMed PMID: 17084897.