



# Anti-CFI monoclonal antibody, clone 3R/8 (CABT-47940MH)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Product Overview

Mouse anti Human Complement Factor I antibody, clone 3R/8 recognizes complement factor I, a member of the peptidase S1 family present in the blood plasma. 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. Mouse anti Human Complement Factor I antibody, clone 3R/8 blocks function of complement factor I. Removal of Sodium Azide is recommended prior to use in functional assays.

<b>Specificity</b>	CFI
<b>Immunogen</b>	Native human factor I from serum.
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	3R/8
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	IHC-Fr; ELISA; FA; WB
<b>Format</b>	Purified IgG - liquid

<b>Size</b>	100 µg
<b>Preservative</b>	0.1% Sodium Azide
<b>Storage</b>	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">CFI complement factor I [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	CFI
<b>Synonyms</b>	CFI; complement factor I; FI; IF; KAF; AHUS3; ARMD13; C3BINA; C3b-INA; C3b-inactivator; C3B/C4B inactivator; complement component I; light chain of factor I; Konglutinogen-activating factor; complement factor I heavy chain; complement control protein fact
<b>Entrez Gene ID</b>	<a href="#">3426</a>
<b>Protein Refseq</b>	<a href="#">NP_000195</a>
<b>UniProt ID</b>	P05156
<b>Chromosome Location</b>	4q25
<b>Pathway</b>	Complement and coagulation cascades; Complement cascade; Immune System; Innate Immune System; Regulation of Complement cascade; Staphylococcus aureus infection;
<b>Function</b>	metal ion binding; scavenger receptor activity; serine-type endopeptidase activity;