



[Go to Product page](#)

Datasheet for ABIN4955823

## anti-Complement Factor I antibody

### 2 Images

#### Overview

Quantity:	100 µg
Target:	Complement Factor I (CFI)
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Flow Cytometry (FACS)

#### Product Details

Immunogen:	Amino acids K19-D220 were used as the immunogen for the Factor I antibody.
Isotype:	IgG
Purification:	Antigen affinity

#### Target Details

Target:	Complement Factor I (CFI)
Alternative Name:	Complement Factor I / CFI ( <a href="#">CFI Products</a> )
Background:	Complement factor I, also known as C3b/C4b inactivator, is a protein that in humans is encoded by the CFI gene. This gene encodes a serine proteinase that is essential for regulating the complement cascade. The encoded preproprotein is cleaved to produce both heavy and light chains, which are linked by disulfide bonds to form a heterodimeric glycoprotein. This heterodimer can cleave and inactivate the complement components C4b and C3b, and it prevents the assembly of the C3 and C5 convertase enzymes. Defects in this gene cause

## Target Details

complement factor I deficiency, an autosomal recessive disease associated with a susceptibility to pyogenic infections. Mutations in this gene have been associated with a predisposition to atypical hemolytic uremic syndrome, a disease characterized by acute renal failure, microangiopathic hemolytic anemia and thrombocytopenia. Primary glomerulonephritis with immune deposits and age-related macular degeneration are other conditions associated with mutations of this gene.

UniProt: [P05156](#)

Pathways: [Complement System](#)

## Application Details

Application Notes: Western blot: 0.1-0.5 µg/mL, FACS: 1-3 µg/10<sup>6</sup> cells

Restrictions: For Research Use only

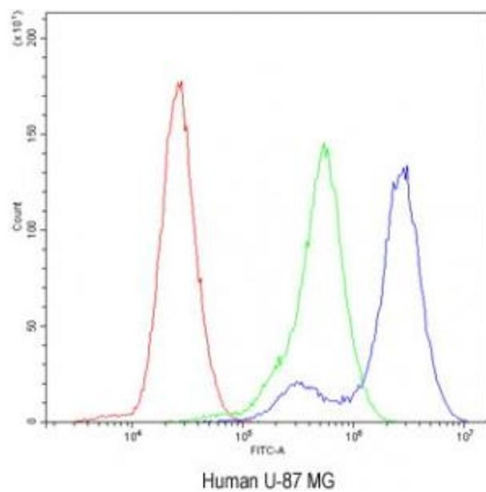
## Handling

Buffer: 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water

Storage: -20 °C

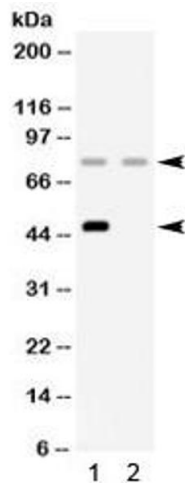
Storage Comment: After reconstitution, the Factor I antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

## Images



### Flow Cytometry

**Image 1.** Flow cytometry testing of human U-87 MG cells with Factor I antibody at 1 µg/10<sup>6</sup> cells (blocked with goat sera)



### Western Blotting

**Image 2.** Western blot testing of 1) rat liver and 2) human HeLa lysate with Factor I antibody. Expected molecular weight: 66 kDa (unmodified), 88 kDa (fully glycosylated), 50/38 kDa (fully glycosylated heavy/light chain).