

Complement

Monoclonal Antibodies: Murine Anti-Human Factor I (#1)

For Research Use Only. Not for use in Diagnostic Procedures.

Background

Factor I is one of the complement proteins which is unique to the Alternative Pathway. It is a 88 kD glycoprotein composed of heavy (50 kD) and light (38 kD) chains linked by disulphide bonds. Factor I is a highly specific serine protease which cleaves the alpha chain of C3b and C4b leading to the formation of iC3b and C3f, followed by C3c and C3d,g. It does not function effectively without a cofactor, such as Factor H, CR1, MCP or CR2. The concentration of Factor I in human serum/plasma is ~34 µg/ml.

The Alternative Complement Pathway provides innate protection against microbial agents in the absence of specific antibodies. The activation of this complement pathway can be triggered by a variety of substances, including microbial polysaccharaides or lipids, gram-negative bacterial lipopolysaccharides, and surface determinants present on some viruses, parasites, virally infected mammalian cells, and cancer cells. In autoimmune diseases, the Alternative Complement Pathway may contribute directly to tissue damage.

Specificity

The specificity of the monoclonal antibody was established by ELISA and RIA. The antibody was shown to bind highly purified Factor I. By RIA, the antibody immunoprecipitates radiolabeled Factor I sing protein A-bearing bacteria to capture the immune complex. The antibody does not inhibit the cleavage of C3b to iC3b in the presence of Factor H and Factor I.

Applications

EIA ¹	RIA	IHC	WB	FACS
>1:10,000	N/T	N/T	N/T	N/T

N/T = Not tested.

Specifications

Catalog Number: A247
 Concentration: 1.0-1.2 mg/ml
 Purity: ≥ 95% by SDS PAGE
 Volume/Vial: 100 µl
 Storage:
 ≤ 30 Days 2-8°C
 > 30 Days ≤ -20°C
 Buffer: Borate Buffered Saline
 (pH 8.4 ± 0.2)
 Isotype: IgG₁k

Species Cross Reactivity: Human

References

1 On file with Quidel Corporation.

Ordering and Additional Information

To learn more about this and other Quidel products visit our website quidel.com or contact Technical Services at 1.800.874.1517

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