Human Complement Factor B Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG

Catalog Number: BAF2739

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Complement Factor B in Western blots. In this format, less than 2% cross-reactivity with recombinant human (rh) Factor D and rhFactor I is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Complement Factor B Thr26-Leu764 with a Gln34Arg substitution Accession # AAA16820
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human Complement Factor B

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Complement Factor B (also C3/C5 convertase, GBC and PBF2) is a 93-95 kDa glycoprotein member of the peptidase S1 family of enzymes. It is expressed by hepatocytes and macrophages, and serves as a substrate for complement factor D. Following binding of Factor B to membrane-bound C3b, Factor D acts on Factor B to generate a 33 kDa N-terminal fragment (Ba), plus a 60 kDa C-terminal fragment (Bb) that remains associated with C3b to createe a serine protease. Mature human Factor B is 739 amino acids (aa) in length (aa 26-764). It contains three Sushi domains (aa 35-160), one vWFA domain (aa 270-469), and a large peptidase S1 region (aa 477-757). Cleavage between Arg259Lys260 generates the Ba chain (aa #26-259) and the Bb chain (aa 260-764). There are two potential isoform variants. One shows a premature truncation after Gly589, while another shows a 79 aa substitution for aa 543-764. Over aa 26-764, human shares 85% aa identity with mouse Factor B.

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