



From Biology to Discovery™

C3 Complement beta-chain variant (8G4) Antibody

Subcategory: Mouse Monoclonal Antibody

Cat. No.: 250286

Unit: 0.1 mg

Description:

C3 is a key component of the complement system since classical and alternative activation pathways merge at the C3 activation step when C3 is split into C3a and C3b. The molecular mass of C3 is 185 kDa and it consists of alpha and beta chains (110 kDa and 75 kDa respectively) held together by disulfide bonds. This antibody is specific for an allotypic marker on human C3 (Leu instead of Pro in codon 314 of exon 9), which occurs regularly in the beta-chain of C3F and occasionally in the beta-chain of C3S (F and S meaning fast and slow migration rate, respectively, on agarose gel electrophoresis). The antibody reacts with the 75-kDa beta-chain band of reduced C3 in immunoblotting, and reacts with the 20-kDa and 17-kDa beta-chain fragments produced by cyanogen bromide cleavage.

Isotype: Mouse IgG2a/k

Applications: E, WB

Species Reactivity: H

Format: Each vial contains 0.1 mg IgG in 0.1 ml (1 mg/ml) of PBS pH7.4 with 0.09% sodium azide. Antibody was purified by Protein-A/G affinity chromatography.

Alternate Names: C3 and PZP-like alpha-2-macroglobulin domain-containing protein 1; Complement C3; C3a anaphylatoxin; Complement C3b alpha chain; Complement C3c alpha chain fragment 1; Complement C3dg fragment; C3d fragment; C3g fragment; C3f fragment; C3c alpha chain fragment 2

Accession No.: P01024

Antigen: C3 isolated from human plasma

Application Notes: Product Cat. No. 250286 reacts strongly with C3. Strong reaction is seen in ELISA with C3 coated directly onto the microtiter well, and also when used as detection antibody in sandwich ELISA in wells coated with a polyclonal antibody against C3. In Western blot, Product Cat. No. 250286 detects the allotypic marker on the beta-chain of C3, closely related but not completely specific to the fast-moving form of C3, C3F. Product Cat. No. 250286 can be cleaved by papain to produce Fab fragments. E: 1:8,000; WB: 1:500

Storage: Store at 4°C. Product is guaranteed 6 months from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.