Product datasheet

Anti-Complement C5 Antibody

Catalog Number: *A00156-1*

BOSTER
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Basic Information

Product Name	Anti-Complement C5 Antibody
Gene Name	C5
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	mouse, rat
Tested Application	WB, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived mouse C5 recombinant protein (Position: Q19-D294).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	75 kDa/115 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA):1:100-1000

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Complement component 5 is a protein that in humans is encoded by the C5 gene. This gene encodes a component of the complement system, a part of the innate immune system that plays an important role in inflammation, host homeostasis, and host defense against pathogens. The encoded preproprotein is proteolytically processed to generate multiple protein products, including the C5 alpha chain, C5 beta chain, C5a anaphylatoxin and C5b. The C5 protein is comprised of the alpha and beta chains, which are linked by a disulfide bridge. Cleavage of the alpha chain by a convertase enzyme results in the formation of the C5a anaphylatoxin, which possesses potent spasmogenic and chemotactic activity, and the C5b macromolecular cleavage product, a subunit of the membrane attack complex (MAC). Mice with a homozygous mutation in this gene exhibit impaired bone fracture healing and an enhanced inflammatory response in an allergic lung disease model.

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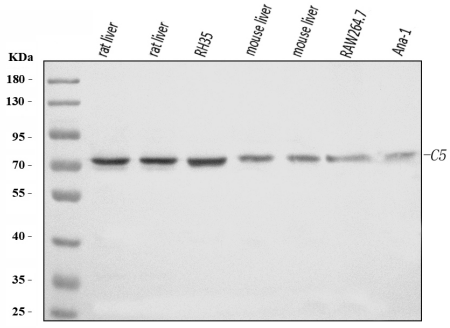
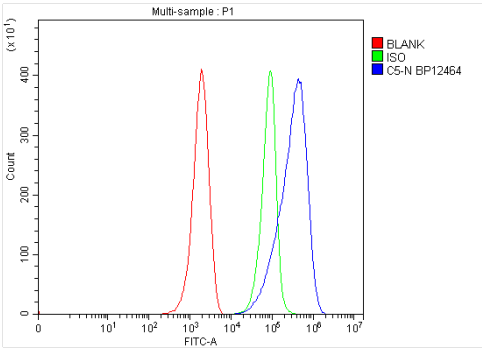
Reference

Anti-Complement C5 Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of Complement C5 using anti-Complement C5 antibody (A00156-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: rat liver tissue lysates,
Lane 2: rat liver tissue lysates,
Lane 3: RH35 whole cell lysates,
Lane 4: mouse liver tissue lysates,
Lane 5: mouse liver tissue lysates,
Lane 6: RAW264.7 whole cell lysates,
Lane 7: Ana-1 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Complement C5 antigen affinity purified polyclonal antibody (A00156-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Complement C5 at approximately 75 kDa/115 kDa. The expected band size for Complement C5 is at 189 kDa.



Flow Cytometry analysis of ANA-1 cells using anti-Complement C5 antibody (A00156-1).
Overlay histogram showing ANA-1 cells stained with A00156-1 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-Complement C5 Antibody (A00156-1) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without

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incubation with primary antibody and secondary antibody (Red line) was used as a blank control.