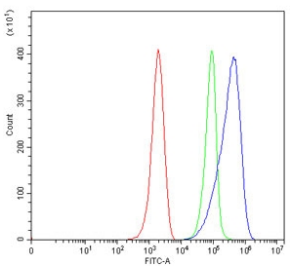
C5B Antibody / Complement C5B (RQ6829)

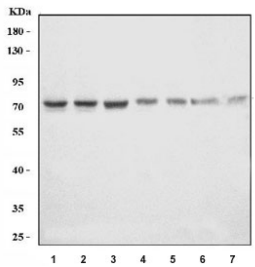
Catalog No.	Formulation	Size
RQ6829	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P06684
Applications	Western blot: 1-2ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This C5B antibody is available for research use only.



Flow cytometry testing of mouse ANA-1 cells with C5B antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= C5B antibody.



Western blot testing of 1) rat liver, 2) rat liver, 3) rat RH35, 4) mouse liver, 5) mouse liver, 6) mouse RAW264.7 and 8) mouse ANA-1 cell lysate with C5B antibody. Predicted molecular weight ~189 kDa (C5), 75-80 kDa (beta chain).

Description

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.

Application Notes

Optimal dilution of the C5B antibody should be determined by the researcher.

Immunogen

Recombinant mouse protein (amino acids Q19-D294) was used as the immunogen for the C5B antibody.

Storage

After reconstitution, the C5B antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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