CD21 (A-3): sc-13135

**BACKGROUND**

CD21 (also known as complement receptor (CR) type 2) is a type I integral membrane glycoprotein that serves as a receptor for the C3b complement fragment and for the Epstein-Barr virus. It plays a role in B cell activation and proliferation and undergoes phosphorylation after B cell activation with phorbol esters. CD21 is expressed on mature B cells, follicular dendritic cells, pharyngeal and cervical epithelial cells and a subset of thymocytes. The adaptive immune response is tightly regulated to limit responding cells in an antigen-specific manner. On B cells, co-receptors CD21/CD19 modulate the strength of B cell Ag receptor (Bcr) signals, thereby influencing cell fate. CD21 is normally expressed during the immature and mature stages of B cell development. In association with CD19, CR21 plays an important role in enhancing mature B cell responses to foreign antigens.

**CHROMOSOMAL LOCATION**

 Genetic locus: CR2 (human) mapping to 1q32.2; CR2 (mouse) mapping to 1H6.

**SOURCE**

CD21 (A-3) is a mouse monoclonal antibody raised against amino acids 21-280 of CD21 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG2b kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CD21 (A-3) is available conjugated to agarose (sc-13135 AC), 500 µg/0.25 ml sodium azide and 0.1% gelatin. CD21 (A-3) is recommended for detection of CD21 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:500), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000). Suitable for use as control antibody for CD21 siRNA (h): sc-29974, CD21 siRNA (m): sc-29975, CD21 shRNA Plasmid (h): sc-29974-SH, CD21 shRNA Plasmid (m): sc-29975-SH, CD21 shRNA (h) Lentiviral Particles: sc-29974-V and CD21 shRNA (m) Lentiviral Particles: sc-29975-V.

Molecular Weight of CD21: 145 kDa.

Positive Controls: AT3B-1 whole cell lysate: sc-364372.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:


**APPLICATIONS**

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Molecular Weight of CD21: 145 kDa.

Positive Controls: AT3B-1 whole cell lysate: sc-364372.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**DATA**

To ensure optimal results, the following support reagents are recommended:


**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

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