

Datasheet for ABIN6939184
anti-CD21 antibody (AA 142-240)



[Go to Product page](#)

6 Images

Overview

Quantity:	100 µg
Target:	CD21 (CR2)
Binding Specificity:	AA 142-240
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD21 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunohistochemistry (IHC), Western Blotting (WB), ELISA, Immunofluorescence (IF), Staining Methods (StM), Coating (Coat)

Product Details

Immunogen:	Recombinant fragment (around aa 142-240) of human CR2 (CD21) protein (exact sequence is proprietary)
Clone:	CR2-2754
Isotype:	IgG1 kappa
Specificity:	Recognizes a protein of 140 kDa, which is identified as the complement receptor 2 (CR2) or CD21. This protein is expressed strongly on mature B cells, follicular dendritic cells and weakly on immature thymocytes and T lymphocytes. In B-cell ontogeny, CD21 appears after the pre-B-stage, is maintained during peripheral B-cell development and is lost upon terminal differentiation into plasma cells. CD21 expression is also gradually lost after stimulation of B cells in vitro. CD21 functions as receptor for C3d, C3dg and iC3b Complement components, for

Product Details

EBV and for IFN α . CD21 binds to CD23 and associates with CD19, CD81 and Leu13 to form a large signal-transduction complex involved in B cell activation.

Purification: Purified by Protein A/G

Target Details

Target: CD21 (CR2)

Alternative Name: CR2 ([CR2 Products](#))

Molecular Weight: 140kDa

Gene ID: 1380

UniProt: [P20023](#)

Pathways: [Complement System](#)

Application Details

Application Notes: Positive Control: MOLT4, Raji or WEHI-231 cells. Tonsil.
Known Application: ELISA (For coating, order antibody without BSA),Flow Cytometry (1-2 μ g/million cells),Western Blot (1-2 μ g/mL),Immunofluorescence (1-2 μ g/mL),Immunohistochemistry (Formalin-fixed) (1-2 μ g/mL for 30 min at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 μ g/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

Preservative: Sodium azide

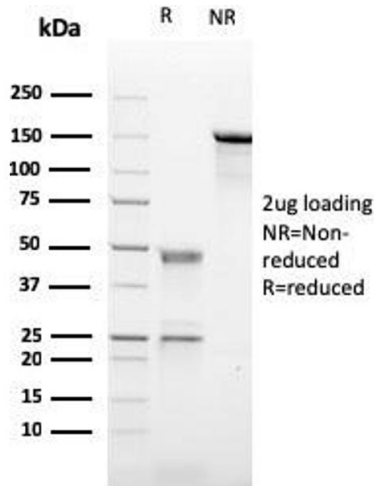
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-80 °C

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody

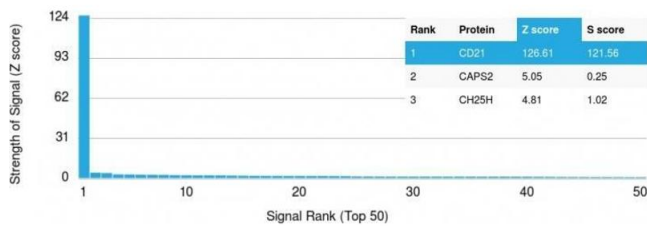
is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



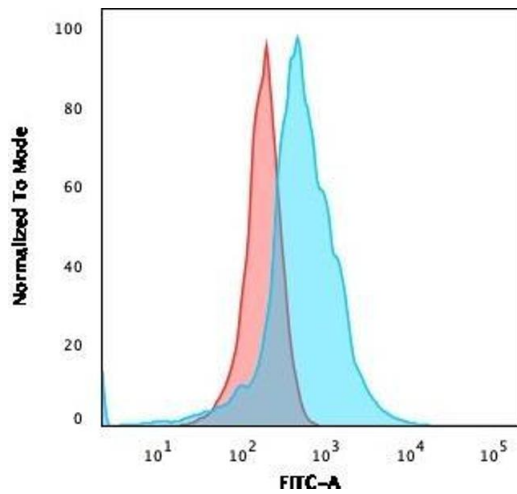
Western Blotting

Image 1. SDS-PAGE Analysis Purified CD21-Monospecific Mouse Monoclonal Antibody (CR2/2754). Confirmation of Integrity and Purity of Antibody.



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using CD21-Monospecific Mouse Monoclonal Antibody (CR2/2754) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SDs) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SDs) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Flow Cytometry

Image 3. Flow Cytometric Analysis of PFA-fixed MOLT4 cells. CD21-Monospecific Mouse Monoclonal Antibody (CR2/2754) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN6939184.