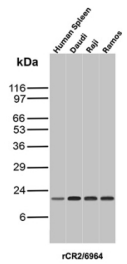
Recombinant CD21 Antibody [clone rCR2/6964] (V4773)

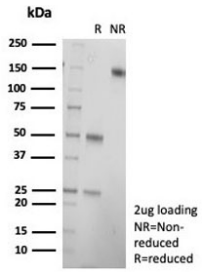
Catalog No.	Formulation	Size
V4773-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4773-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4773SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

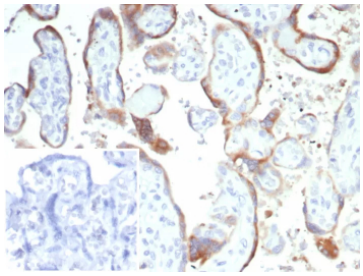
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	rCR2/6964
Purity	Protein A/G affinity
UniProt	P20023
Localization	Cell surface
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT Western blot: 2-4ug/ml
Limitations	This recombinant CD21 antibody is available for research use only.



CD21 Antibody B-cell Line WB. Western blot analysis of Complement Receptor 2 / CD21 in human spleen, Daudi, Raji, and Ramos lysates using recombinant mouse monoclonal CD21 antibody, clone rCR2/6964. A band is detected at approximately 20â€“25 kDa in all samples, consistent with the expected molecular weight of CD21 fragments, with strong signal observed in B-cell lymphoma lines reflecting CD21 expression in B-cell populations.



SDS-PAGE analysis of purified, BSA-free recombinant CD21 antibody (clone rCR2/6964) as confirmation of integrity and purity.



CD21 Antibody Placenta IHC. Immunohistochemistry of Complement Receptor 2 / CD21 in FFPE human placenta tissue using recombinant CD21 antibody, clone rCR2/6964. HRP-DAB brown staining highlights trophoblast cell membranes lining chorionic villi, while stromal cores show minimal staining and nuclei are counterstained blue. Inset: PBS was used in place of primary antibody as a negative control to confirm specificity of staining.

Description

Recognizes a protein of 140kDa, 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 EBV and for IFN alpha. CD21 binds to CD23 and associates with CD19, CD81 and Leu13 to form a large signal-transduction complex involved in B cell activation.

For a validated reference of CD21 expression across B cells and follicular dendritic cell networks, see CD21 antibody clone CR2/2754 with supporting multi-application data.

Application Notes

Optimal dilution of the recombinant CD21 antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 900-1033) from the human protein was used as the immunogen for the recombinant CD21 antibody.

Storage

Aliquot the recombinant CD21 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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