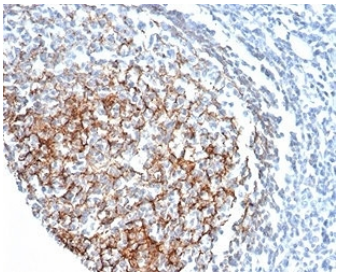
CD35 Antibody / CR1 Complement Receptor 1 Antibody [clone CR1/6378] (V9752)

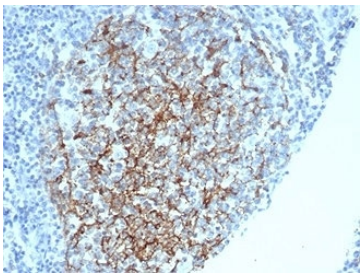
Catalog No.	Formulation	Size
V9752-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9752-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9752SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

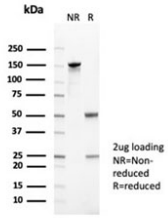
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	CR1/6378
Purity	Protein A/G affinity
UniProt	P17927
Localization	Cell surface
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This CD35 Antibody / CR1 Complement Receptor 1 Antibody is available for research use only.



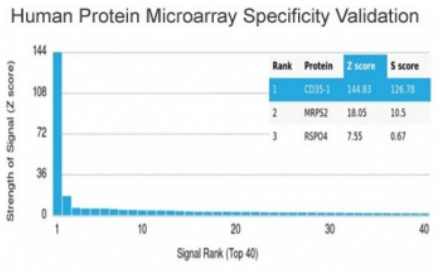
CD35 Antibody Tonsil IHC. Immunohistochemistry of CD35 / CR1 in FFPE human tonsil tissue using mouse monoclonal CD35 antibody, clone CR1/6378. HRP-DAB brown staining highlights a follicular dendritic cell network within germinal centers, showing a characteristic mesh-like pattern consistent with complement receptor localization, while surrounding lymphocytes show minimal staining and nuclei are counterstained blue. Heat induced epitope retrieval was performed by boiling tissue sections in pH 9 10 mM Tris with 1 mM EDTA for 20 min followed by cooling prior to staining.



CD35 Antibody Spleen IHC. Immunohistochemistry of CD35 / CR1 in FFPE human spleen tissue using mouse monoclonal CD35 antibody, clone CR1/6378. HRP-DAB brown staining highlights a follicular dendritic cell network within splenic white pulp, showing a reticular mesh-like pattern consistent with complement receptor localization in germinal center-associated stromal cells, while surrounding lymphoid cells show minimal staining and nuclei are counterstained blue. Heat induced epitope retrieval was performed by boiling tissue sections in pH 9 10 mM Tris with 1 mM EDTA for 20 min followed by cooling prior to staining.



SDS-PAGE analysis of purified, BSA-free CD35 antibody (clone CR1/6378) as confirmation of integrity and purity.



CD35 Antibody Microarray Validation. Protein microarray analysis of CD35 / CR1 using mouse monoclonal CD35 antibody, clone CR1/6378, across a HuProt(TM) array containing more than 19,000 full-length human proteins demonstrates highly selective binding to the target protein CD35 (CR1), with minimal reactivity toward non-target proteins. Signal intensity is strongly enriched for CR1 relative to all other proteins, supporting a high level of specificity. Z-score represents the strength of antibody binding signal expressed as standard deviations above the mean array signal, while S-score reflects the separation between the top-ranked target and the next highest signal, indicating relative target specificity. The observed signal profile confirms selective recognition of CD35 in a proteome-wide context.

Description

Complement receptor 1 (CR1), also known as CD35, is a cell surface glycoprotein involved in immune complex clearance and complement regulation. CD35 Antibody / CR1 Complement Receptor 1 Antibody is widely used to study immune system organization, particularly within lymphoid tissues where CD35 plays a key role in antigen presentation and complement-mediated immune responses. CD35 antibody, also referred to as CR1 antibody in the literature, is an important tool for evaluating follicular dendritic cell networks and immune complex handling. This antibody is part of a collection of Human Protein Microarray validated antibodies that have been screened for specificity across thousands of proteins.

CD35 is expressed on several cell types including erythrocytes, B cells, monocytes, and most prominently follicular dendritic cells within lymphoid follicles. Its primary function is to bind complement components such as C3b and C4b, facilitating clearance of immune complexes and regulation of complement activation. This activity is critical for maintaining immune homeostasis and preventing excessive inflammatory responses.

In immunohistochemistry, CD35 is most characteristically observed as a mesh-like staining pattern corresponding to follicular dendritic cell networks within germinal centers. This distinctive distribution makes CD35 antibody particularly useful for identifying follicular architecture in tissues such as tonsil, lymph node, and spleen. The ability to visualize these networks provides important context for studies of lymphoid organization, B-cell maturation, and germinal center dynamics.

Functionally, CD35 plays a central role in adaptive immunity by retaining immune complexes on follicular dendritic cells, allowing prolonged antigen presentation to B cells. This process supports affinity maturation and antibody production. Disruption of CD35 function has been associated with immune dysregulation and altered complement activity, highlighting

its importance in both normal and disease states.

In pathology, CD35 expression is frequently evaluated in lymphoid tissues and tumors, particularly in the assessment of follicular dendritic cell networks and related neoplasms. Immunohistochemical staining using CD35 antibody can help distinguish lymphoid architecture and identify follicular dendritic cell-derived tumors, as well as provide insight into tumor microenvironment organization.

The mouse monoclonal clone CR1/6378 antibody provides reliable detection of CD35 in immunohistochemistry applications. Its ability to clearly delineate follicular dendritic cell networks in lymphoid tissues makes it well suited for studies of immune structure, complement biology, and lymphoid tissue organization.

This CD35 antibody is part of a broader CD antibody panel offered by NSJ Bioreagents.

Application Notes

Optimal dilution of the CD35 Antibody / CR1 Complement Receptor 1 Antibody should be determined by the researcher.

Immunogen

A portion of amino acids 650-850 was used as the immunogen for the CD35 antibody.

Storage

Aliquot the CD35 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

CR1 antibody, Complement receptor 1 antibody, CD35 protein antibody, Immune complex receptor antibody, Erythrocyte CR1 antibody

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