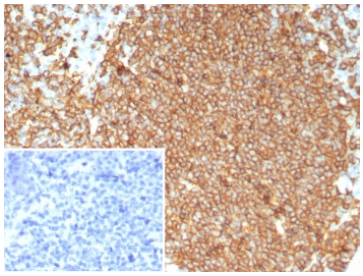
Recombinant CD20 Antibody [clone MS4A1/8072R] (V4169)

Catalog No.	Formulation	Size
V4169-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4169-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4169SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

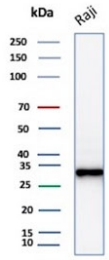
Recombinant RABBIT MONOCLONAL

Bulk quote request

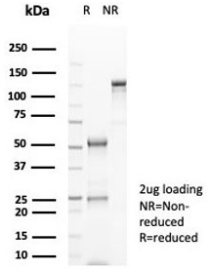
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	MS4A1/8072R
Purity	Protein A affinity
UniProt	P11836
Localization	Cell Surface
Applications	Western Blot : 2-4ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This recombinant CD20 antibody is available for research use only.



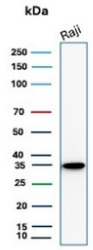
Immunohistochemistry analysis of Recombinant CD20 Antibody in human tonsil tissue. FFPE human tonsil demonstrates strong membranous HRP-DAB brown staining in B lymphocytes within germinal centers and follicular regions, consistent with CD20/MS4A1 expression on mature B cells, while surrounding non-B-cell areas show minimal staining. The inset image shows the PBS negative control with no specific signal. Antigen retrieval was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 minutes followed by cooling prior to incubation with recombinant CD20 antibody (clone MS4A1/8072R).



Western blot testing of human Raji cell lysate with recombinant CD20 antibody (clone MS4A1/8072R). Predicted molecular weight ~33 kDa.



SDS-PAGE analysis of purified, BSA-free recombinant CD20 antibody (clone MS4A1/8072R) as confirmation of integrity and purity.



Western blot testing of human Raji cell lysate with recombinant CD20 antibody (clone MS4A1/8072R). Predicted molecular weight ~33 kDa.

Description

Recombinant CD20 Antibody (clone MS4A1/8072R) recognizes CD20, also known as Membrane spanning 4-domains subfamily A member 1, a non-glycosylated transmembrane phosphoprotein expressed on the surface of B lymphocytes. CD20 is primarily localized to the plasma membrane, where it functions as a regulator of B-cell activation, proliferation, and calcium signaling. Recombinant CD20 Antibody supports research focused on B-cell biology, hematologic malignancies, and therapeutic antibody development targeting CD20-expressing cells.

The MS4A1 gene, located on chromosome 11q12.2, encodes CD20, a member of the MS4A family characterized by four transmembrane domains and cytoplasmic N- and C-termini. Unlike many surface receptors, CD20 lacks a known natural ligand and instead acts as part of a membrane complex involved in B-cell receptor signaling and calcium influx regulation. CD20 is expressed from the pre-B-cell stage through mature B cells but is absent on early pro-B cells and terminally differentiated plasma cells. Recombinant CD20 Antibody enables investigation of B-cell differentiation and maturation stages in normal and disease settings.

CD20 expression is highly enriched in lymphoid tissues including tonsil, lymph node, and spleen, where it marks B-cell populations within follicles and germinal centers. Because of its restricted expression pattern and stable membrane localization, CD20 has become one of the most clinically relevant B-cell markers. It is widely used in research related to B-cell non-Hodgkin lymphoma, chronic lymphocytic leukemia, and other B-cell lymphoproliferative disorders. Recombinant CD20 Antibody provides a reliable reagent for detecting CD20 expression in studies of lymphoid malignancy and immune regulation.

Therapeutic targeting of CD20 has transformed the treatment landscape for B-cell cancers and certain autoimmune diseases. Monoclonal antibodies directed against CD20 induce cell death through complement activation, antibody-dependent cellular cytotoxicity, and direct apoptotic signaling. Investigation of CD20 expression levels and distribution remains important for understanding treatment response and resistance mechanisms. Recombinant CD20 Antibody supports detailed analysis of CD20 distribution, density, and regulation in experimental models.

This recombinant rabbit monoclonal antibody is engineered for consistent performance and lot-to-lot reproducibility. Recombinant CD20 Antibody facilitates research into B-cell signaling pathways, lymphoma biology, immune modulation, and translational studies involving CD20-targeted therapies.

Application Notes

Optimal dilution of the recombinant CD20 antibody should be determined by the researcher.

Immunogen

A recombinant partial protein (within amino acids 200-297) from the human protein was used as the immunogen for the recombinant CD20 antibody.

Storage

Aliquot the recombinant CD20 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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