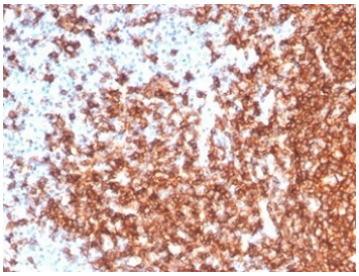
CD20 Antibody MS4A1/7015R / Rabbit Monoclonal [clone MS4A1/7015R] (V9519)

Catalog No.	Formulation	Size
V9519-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9519-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9519SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

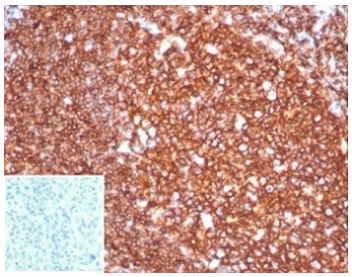
Recombinant RABBIT MONOCLONAL

Bulk quote request

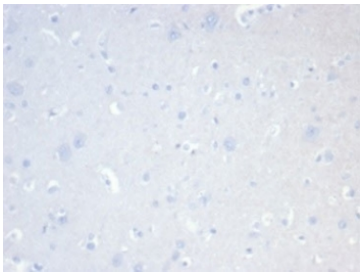
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	MS4A1/7015R
Purity	Protein A affinity
UniProt	P11836
Localization	Cell surface
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This CD20 Antibody MS4A1/7015R is available for research use only.



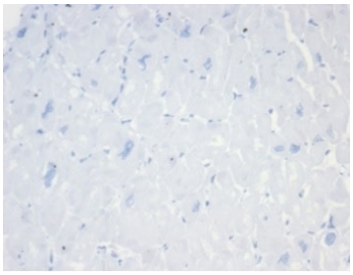
Immunohistochemistry analysis of CD20 Antibody MS4A1/7015R Rabbit Monoclonal in human tonsil tissue. FFPE human tonsil demonstrates strong membranous HRP-DAB brown staining in B lymphocytes within germinal centers and follicular regions, consistent with CD20/MS4A1 surface expression, while adjacent non-B-cell areas show minimal staining. 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 MS4A1/7015R).



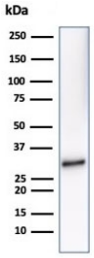
IHC staining of FFPE human tonsil tissue with CD20 antibody (clone MS4A1/7015R). Negative control inset: PBS instead of primary antibody to control for secondary Ab binding. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



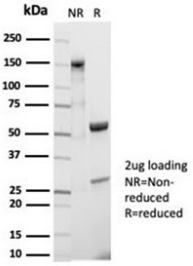
Negative control: IHC staining of FFPE human brain tissue with CD20 antibody (clone MS4A1/7015R) at 2ug/ml in PBS for 30min RT. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Negative control: IHC staining of FFPE human heart tissue with CD20 antibody (clone MS4A1/7015R) at 2ug/ml in PBS for 30min RT. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Western blot testing of human Raji cell lysate using CD20 antibody (clone MS4A1/7015R). Predicted molecular weight ~33 kDa.



SDS-PAGE analysis of purified, BSA-free CD20 antibody (clone MS4A1/7015R) as confirmation of integrity and purity.

Description

CD20 Antibody MS4A1/7015R recognizes CD20, also known as Membrane spanning 4-domains subfamily A member 1, a B-cell specific transmembrane phosphoprotein encoded by the MS4A1 gene. CD20 is localized to the plasma membrane of B lymphocytes, where it regulates B-cell activation, proliferation, and calcium flux. CD20 Antibody Rabbit Monoclonal is developed to support research in B-cell immunology, lymphoma biology, and CD20-targeted therapeutic studies.

The MS4A1 gene is located on chromosome 11q12.2 and encodes a protein characterized by four transmembrane domains with short cytoplasmic N- and C-terminal tails. CD20 expression begins at the late pre-B-cell stage and

continues through mature B cells but is absent on hematopoietic stem cells and terminally differentiated plasma cells. This lineage-restricted expression makes CD20 one of the most widely used markers for identifying B-cell populations in lymphoid tissues such as tonsil, spleen, and lymph node.

Functionally, CD20 associates with the B-cell receptor signaling complex and contributes to calcium influx following antigen engagement. Although CD20 does not bind a defined soluble ligand, it participates in membrane microdomains that regulate signal transduction and B-cell activation. Aberrant CD20 expression is observed in B-cell non-Hodgkin lymphoma, chronic lymphocytic leukemia, and other lymphoproliferative disorders. CD20 Antibody Rabbit Monoclonal enables detailed evaluation of CD20 distribution and expression levels in both normal and malignant B-cell populations.

CD20 is also a clinically significant therapeutic target. Anti-CD20 monoclonal antibodies are widely used to deplete B cells through complement activation, antibody-dependent cellular cytotoxicity, and apoptosis induction. Understanding CD20 density, membrane organization, and antigen modulation remains important for investigating treatment response and resistance. Clone MS4A1/7015R is engineered as a rabbit monoclonal antibody to provide consistent specificity and reproducibility in CD20 detection.

By targeting a well-established B-cell surface antigen, CD20 Antibody Rabbit Monoclonal supports studies in lymphoma classification, immune regulation, and translational research focused on CD20-directed therapies.

For additional CD20 research, explore our CD20 Antibody rIGEL/773, a recombinant monoclonal antibody supported by Western blot, immunohistochemistry, immunofluorescence, flow cytometry, and human protein microarray data.

Application Notes

Optimal dilution of the CD20 Antibody MS4A1/7015R should be determined by the researcher.

Immunogen

A portion of amino acids 97-297 was used as the immunogen for the CD20 antibody.

Storage

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

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