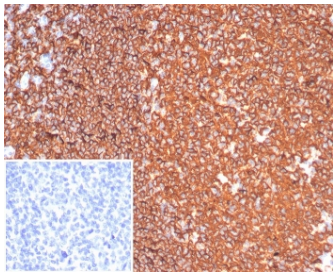
CD20 Antibody Recombinant Rabbit MAb [clone MS4A1/6993R] (V4167)

Catalog No.	Formulation	Size
V4167-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4167-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4167SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

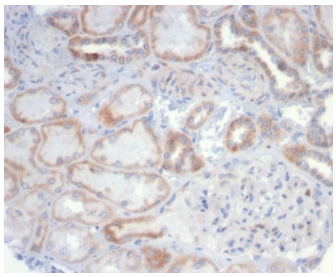
Recombinant RABBIT MONOCLONAL

Bulk quote request

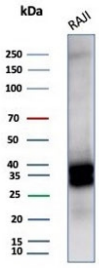
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	MS4A1/6993R
Purity	Protein A affinity
UniProt	P11836
Localization	Cell surface
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
Limitations	This CD20 antibody is available for research use only.



Immunohistochemistry analysis of CD20 Antibody Recombinant Rabbit MAb 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 surrounding T-cell zones 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 CD20 antibody (clone MS4A1/6993R).



IHC staining of FFPE human kidney tissue with CD20 antibody (clone MS4A1/6993R). 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 with CD20 antibody (clone MS4A1/6993R). Predicted molecular weight ~33 kDa.

Description

CD20 antibody 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 signaling. CD20 Antibody Recombinant Rabbit MAb supports research in B-cell biology, hematologic malignancies, and immune system modulation.

MS4A1 is located on chromosome 11q12.2 and encodes a protein containing four transmembrane domains with cytoplasmic N- and C-termini. CD20 is expressed from the late pre-B-cell stage through mature B cells but is absent on hematopoietic stem cells and plasma cells. This stage-restricted expression pattern 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 complex and contributes to calcium influx following antigen stimulation. Although it lacks a defined soluble ligand, CD20 participates in membrane signaling microdomains that regulate B-cell activation and cell cycle progression. Dysregulated CD20 expression is observed in B-cell non-Hodgkin lymphoma, chronic lymphocytic leukemia, and other lymphoproliferative disorders. CD20 Antibody Recombinant Rabbit MAb enables evaluation of CD20 distribution and expression levels in normal and malignant tissues.

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 regulation remains important for studying therapeutic resistance and response mechanisms. Clone MS4A1/6993R is engineered as a recombinant rabbit monoclonal antibody to provide consistent specificity and reproducibility in CD20 detection.

By targeting a well-established B-cell marker, CD20 Antibody Recombinant Rabbit MAb supports investigations into lymphoma biology, immune regulation, and translational oncology research.

Application Notes

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

Immunogen

A recombinant partial protein (within amino acids 97-297) from the human protein 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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