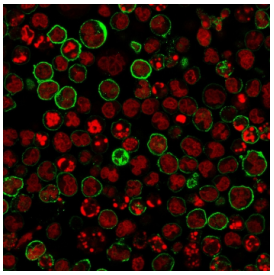
MS4A1 Antibody Cocktail L26 + IGEL/773 / CD20 Mouse Monoclonal Antibody Cocktail [clone L26 + IGEL/773] (V6036)

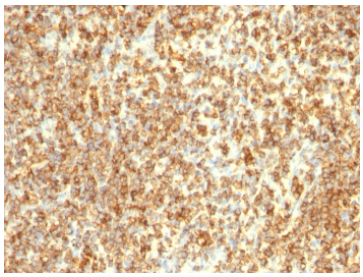
Catalog No.	Formulation	Size
V6036-100UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V6036-20UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug
V6036SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

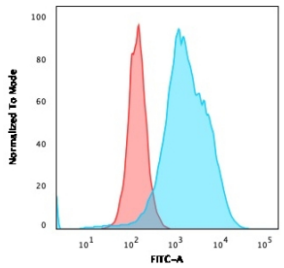
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	L26 + IGEL/773
UniProt	P11836
Localization	Cell membrane
Applications	Flow Cytometry: 1-2ug/million cells Immunofluorescence: 1-3ug/ml Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This MS4A1 Antibody Cocktail L26 + IGEL/773 is available for research use only.



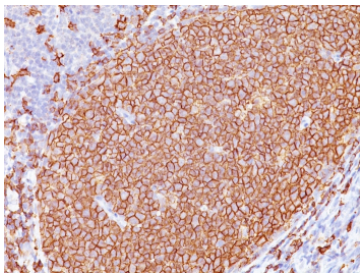
MS4A1 Antibody Cocktail L26 + IGEL/773 IF. Immunofluorescence analysis of MS4A1 Antibody in human Raji cells. MS4A1/Membrane spanning 4-domains A1 antibody (clones L26 + IGEL/773) followed by goat anti-mouse IgG-CF488 demonstrates distinct green membranous staining outlining CD20-positive B cells, consistent with MS4A1 surface localization, while nuclei are counterstained with Reddot (red). The staining pattern highlights strong plasma membrane expression with minimal cytoplasmic background, supporting specific detection of CD20 in this B-cell derived line.



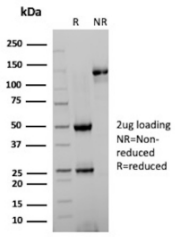
Immunohistochemistry analysis of MS4A1 Antibody / Membrane spanning 4-domains A1 in human lymphoma tissue. FFPE human lymphoma demonstrates diffuse membranous HRP-DAB brown staining in neoplastic B cells, consistent with strong CD20/MS4A1 surface expression, while background stromal elements show minimal staining. Detection was performed using mouse monoclonal antibodies (clones L26 + IGEL/773), highlighting robust B-cell lineage labeling in malignant lymphoid tissue. Antigen retrieval was performed by heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, at 95oC for 45 minutes followed by cooling at room temperature for 20 minutes prior to incubation with CD20 antibody.



Flow Cytometric Analysis of Raji cells using MS4A1/Membrane spanning 4-domains A1 antibody (L26 + IGEL/773) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



Immunohistochemistry analysis of MS4A1 Antibody Cocktail L26 + IGEL/773 in human tonsil tissue. FFPE human tonsil demonstrates strong, uniform membranous HRP-DAB brown staining in B lymphocytes within germinal centers, sharply delineating follicular architecture consistent with CD20/MS4A1 surface expression, while surrounding interfollicular regions show reduced staining. Antigen retrieval was performed by heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, at 95oC for 45 minutes followed by cooling at room temperature for 20 minutes prior to incubation with mouse monoclonal antibodies (clones L26 + IGEL/773).



SDS-PAGE Analysis of Purified MS4A1/Membrane spanning 4-domains A1 antibody (L26 + IGEL/773). Confirmation of Purity and Integrity of Antibody.

Description

MS4A1 Antibody Cocktail L26 + IGEL/773 recognizes Membrane spanning 4-domains subfamily A member 1, commonly known as CD20, 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. MS4A1 Antibody is developed to support research in B-cell biology, lymphoma investigation, and immune cell profiling.

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

Functionally, CD20 associates with the B-cell receptor signaling complex and contributes to calcium influx following antigen engagement. Although CD20 lacks a defined soluble ligand, it participates in membrane microdomains that regulate signal transduction and B-cell activation. Aberrant CD20 expression is characteristic of B-cell non-Hodgkin lymphoma, diffuse large B-cell lymphoma, follicular lymphoma, and chronic lymphocytic leukemia. MS4A1 antibody

supports evaluation of CD20 distribution and density in both normal and malignant B-cell populations.

Clone L26 and clone IGEL/773 are mouse monoclonal antibodies developed to recognize epitopes on CD20 suitable for detection in research applications. CD20 remains a major therapeutic target in oncology and autoimmune disease, and assessment of CD20 expression is important in translational studies examining treatment response and antigen modulation.

By targeting a well-established B-cell lineage marker, MS4A1 Antibody / Membrane spanning 4-domains A1 provides a dependable tool for studies of lymphoma classification, immune regulation, and B-cell differentiation.

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 MS4A1 Antibody Cocktail L26 + IGEL/773 should be determined by the researcher.

Immunogen

Human tonsil B cells (clone L26) and recombinant human MS4A1 protein (clone IGEL/773).

Storage

MS4A1/Membrane spanning 4-domains A1 antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.

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