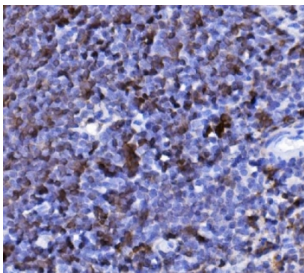


CD20 Antibody Rabbit Polyclonal (RQ6329)

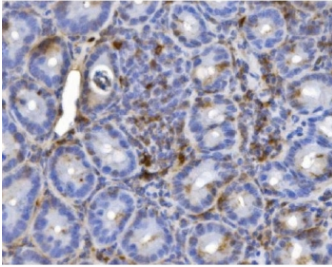
Catalog No.	Formulation	Size
RQ6329	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

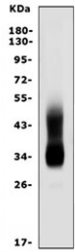
Availability	1-3 business days
Species Reactivity	Mouse
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P11836
Localization	Cell surface, cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This Cd20 antibody is available for research use only.



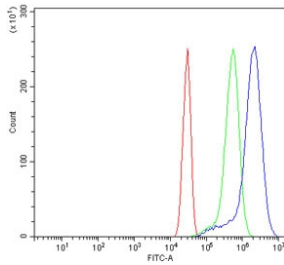
Immunohistochemistry analysis of CD20 Antibody Rabbit Polyclonal in mouse spleen tissue. FFPE mouse spleen demonstrates membranous HRP-DAB brown staining in scattered lymphoid cells within splenic white pulp regions, consistent with Cd20 expression in B lymphocytes, while surrounding red pulp areas show minimal staining. Antigen retrieval was performed by boiling tissue sections in pH 8 EDTA buffer for 20 minutes followed by cooling prior to incubation with Cd20 antibody.



IHC staining of FFPE mouse intestinal tissue with Cd20 antibody. HI ER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of mouse spleen tissue lysate with Cd20 antibody. Expected molecular weight ~33 kDa but may be observed at up to ~50 kDa due to glycosylation.



Flow cytometry testing of mouse HEPA1-6 cells with Cd20 antibody at 1 ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Cd20 antibody.

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 Rabbit Polyclonal is developed to detect CD20 expression in research applications focused on B-cell biology, lymphoma investigation, and immune system 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 regions. 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 restricted lineage expression makes CD20 one of the most widely used markers for identifying B-cell populations in lymphoid tissues such as tonsil, lymph node, spleen, 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. CD20 Antibody Rabbit Polyclonal supports evaluation of CD20 distribution and density in both normal and malignant B-cell populations.

CD20 is also a clinically significant therapeutic target. Anti-CD20 monoclonal antibodies are widely used to induce B-cell depletion through complement activation, antibody-dependent cellular cytotoxicity, and apoptotic signaling. Investigation of CD20 expression levels and antigen modulation remains important for understanding treatment response and resistance mechanisms.

This rabbit polyclonal antibody recognizes multiple epitopes on the CD20 protein, which can enhance detection sensitivity and support identification of native and denatured forms. CD20 Antibody Rabbit Polyclonal provides a dependable

reagent for studying B-cell development, lymphoma biology, and immune regulation in translational and basic research settings.

Application Notes

Optimal dilution of the Cd20 antibody should be determined by the researcher.

Immunogen

Recombinant mouse protein (amino acids M1-P291) was used as the immunogen for the Cd20 antibody.

Storage

After reconstitution, the Cd20 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.