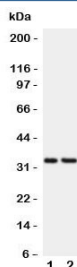


CD20 Antibody / MS4A1 (R31481)

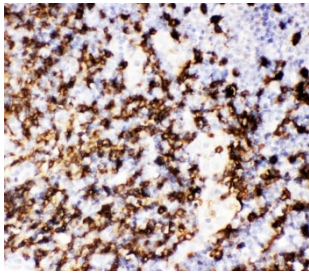
Catalog No.	Formulation	Size
R31481	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

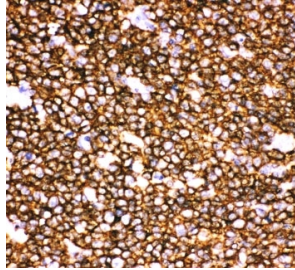
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA, 0.025% sodium azide
Gene ID	931
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml Immunofluorescence (FFPE) : 1-2ug/ml Flow Cytometry : 1-3ug/10 ⁶ cells
Limitations	This CD20 antibody is available for research use only.



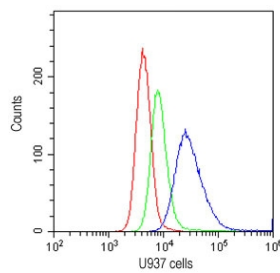
Western blot testing of CD20 antibody and Lane 1: Raji; 2: CEM lysate. Expected molecular weight ~33 kDa.



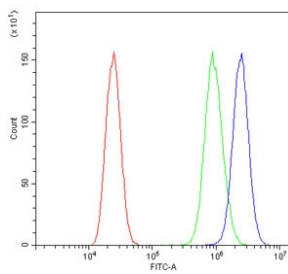
IHC staining of FFPE human tonsil with CD20 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



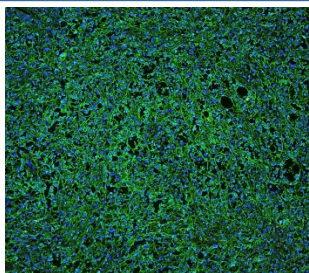
IHC staining of FFPE human tonsil with CD20 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



Flow cytometry testing of human U937 cells with CD20 antibody at 1ug/10⁶ cells (cells blocked with goat sera); Red=cells alone, Green=isotype control, Blue=CD20 antibody.



Flow cytometry testing of human A431 cells with CD20 antibody at 1ug/10⁶ cells (cells blocked with goat sera); Red=cells alone, Green=isotype control, Blue=CD20 antibody.



Immunofluorescent staining of FFPE human B lymphocytic tumor tissue with CD20 antibody (green) at 1ug/ml and DAPI nuclear stain (blue). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.

Description

CD20, also known as MS4A1, is an activated-glycosylated phosphoprotein expressed on the surface of all B-cells beginning at the pro-B phase (CD45R+, CD117+) and progressively increasing in concentration until maturity. It is mapped to 11q12.2. This gene encodes a member of the membrane-spanning 4A gene family. The function of CD20 is to enable optimal B-cell immune response, specifically against T-independent antigens. It is suspected that CD20 acts as a calcium channel in the cell membrane. Additionally, this protein may be involved in the regulation of B-cell activation and proliferation.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the CD20 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 1-261) was used as the immunogen for this CD20 antibody.

Storage

After reconstitution, the CD20 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.