Order: 0571-88177686
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Support: support@biolynx.cn

Rev.: 2018/12/5

CD20
Recombinant Rabbit Monoclonal Antibody
Product Datasheet

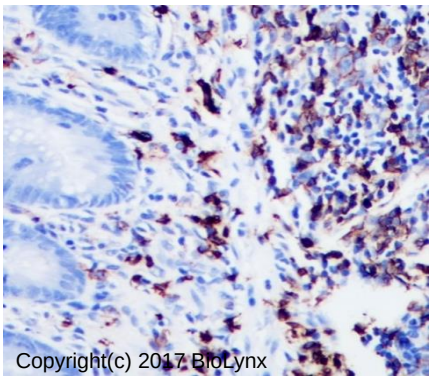
Catalog# BX00018
Clone# RR623

Predicted Molecular Wt: 33kDa
Species Cross-reactivity: Human
Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P11836

Applications: IHC-P IF/ICC FC IP

Background:

CD20 is a leukocyte surface antigen consisting of four transmembrane regions and cytoplasmic N- and C-termini. CD20 is expressed primarily on B cells but has also been detected on both normal and neoplastic T cells. CD20 functions as a calcium-permeable cation channel, and it is known to accelerate the G0 to G1 progression induced by IGF-1. CD20 is activated by the IGF-1 receptor via the α subunits of the heterotrimeric G proteins. Activation of CD20 significantly increases DNA synthesis and is thought to involve basic helix-loop-helix leucine zipper transcription factors.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human appendix tissue labelling CD20 with RR623 at 1:10,000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.

Immunogen:

A synthetic peptide corresponding to residues on the C-terminus of human CD20 was used as an immunogen.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:

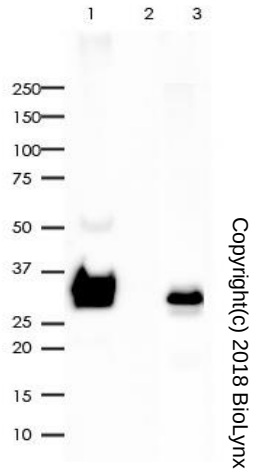
-20°C.

Storage instructions:

Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

Recommended Dilutions:

IHC-P:	1:10,000 - 1:20,000
IF/ICC:	1:400 - 1:1,000
FC:	1:100 - 1:500
IP:	1:20



CD20 was immunoprecipitated from 0.4mg of Raji whole cell lysate with RR623 at 1:20 dilution.
2nd Ab:
GAR HRP for IP 1:500

Lane 1: RR623 IP in Raji whole cell lysate
Lane 2: PBS instead of RR623 in Raji whole cell lysate
Lane 3: Raji whole cell lysate, 10 µg (input)

Exposure: 50s

Background References:

1. Neuro Oncology 11: 503-513.
2. Proc Natl Acad Sci U S A 110:11982-7 (2013).

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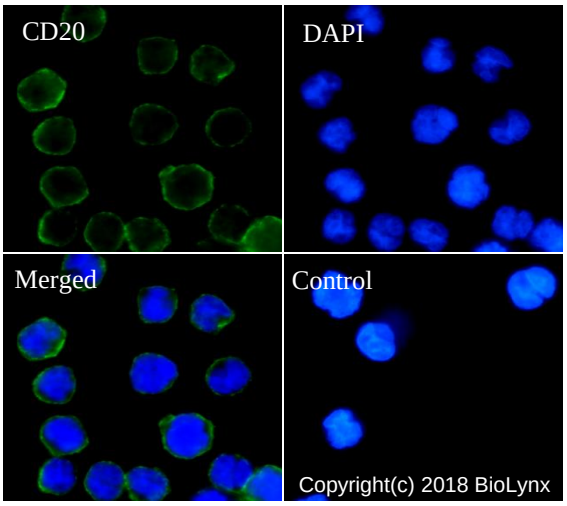
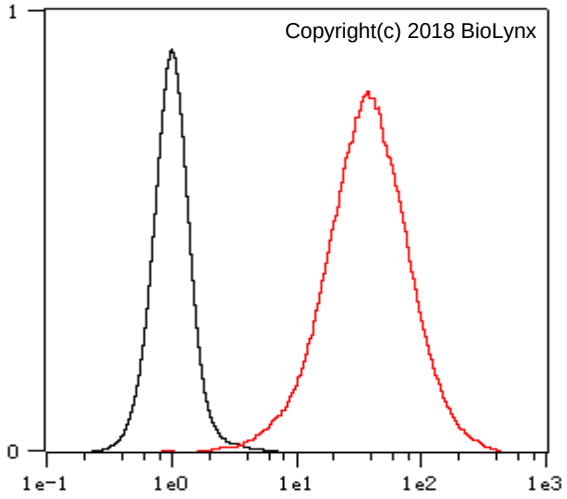


RR623 staining CD20 in Raji cells by IF/ICC (immunofluorescence/immunocytochemistry). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% goat serum for half an hour at room temperature. Samples were incubated with primary antibody (1:1,000) at 4°C. An Alexa Fluor® 488-conjugated Goat Anti-Rabbit IgG polyclonal was used as the secondary antibody (1:500). DAPI (blue) was used as the nuclear counter stain.

Control: PBS and secondary antibody, An Alexa Fluor® 488-conjugated Goat Anti-Rabbit IgG (1:500).



Overlay histogram showing Raji cells stained with RR623(Red). The cells were fixed with 4% paraformaldehyde for 10 min. The cells were then incubated in the antibody (RR623, 1:500 dilution) in 1x PBS/1% BSA for 30 min at room temperature. The secondary antibody used was a Goat Anti-Rabbit Alexa Fluor® 488 (IgG H+L) at 1:2,000 dilution for 20 min at room temperature . Unlabelled sample (Black) was used as a control.

Product QC'd by:

For research use only. Not for use in diagnostic or therapeutic applications.