

CD19 Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX00071

Clone# RR675

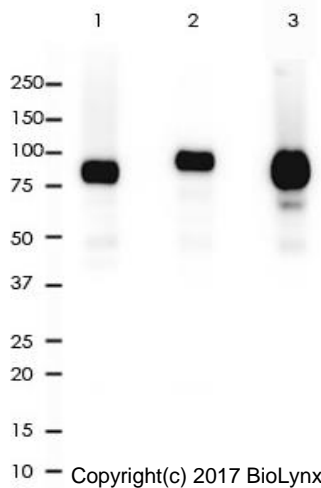
Predicted Molecular Wt: 61kDa
Species Cross-reactivity: Human
Species cross-reactivity determined by WB

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P15391

Applications: WB IHC-P IP FC IF/ICC

Background:

CD19 is a B cell-specific molecule that controls B cell activation by complexing with the BCR. CD19 is a member of the Ig superfamily and is the dominant component for the signaling complex on B cells, including CD21, CD81, and CD22. Human with CD19 deficiency has reduced proliferative responses to BCR stimulation in vitro and impaired Ab-mounting responses to vaccination.



All lanes: Anti-CD19 antibody at 1:2,000 dilution
 Predicted MW: 61 kDa
 Observed MW: 95 kDa

Lane 1: Ramos
 Lane 2: Daudi
 Lane 3: Raji

Lysate at 10 µg per lane
 2nd Ab:
 GAR HRP(H+L) 1:5,000
 Exposure: 10s

Immunogen:

A synthetic peptide corresponding to the C-term of CD19 was used as an immunogen.

Storage Buffer:

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

Storage conditions:

-20°C

Storage instructions:

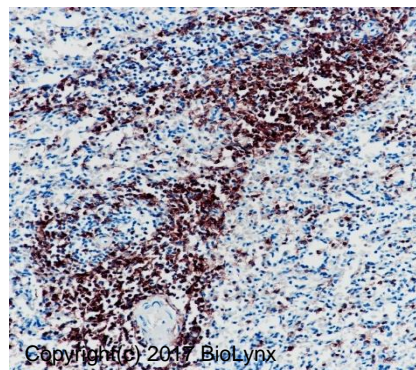
Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

Recommended Dilutions:

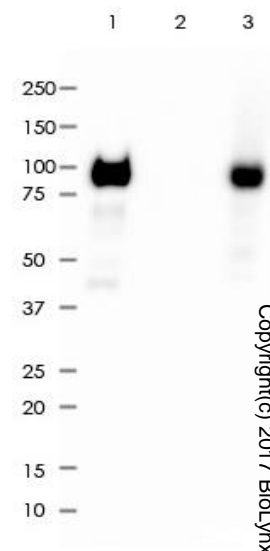
WB: 1:2,000 - 1:10,000
 IHC-P: 1:200 - 1:400
 IP: 1:50
 FC: 1:10
 IF/ICC: 1:10 - 1:50

Background References:

- Baratella M et al. PLoS Negl Trop Dis 11:e0005285 (2017).
- Walls A et al. Int J Pediatr Otorhinolaryngol 80:49-52 (2016).



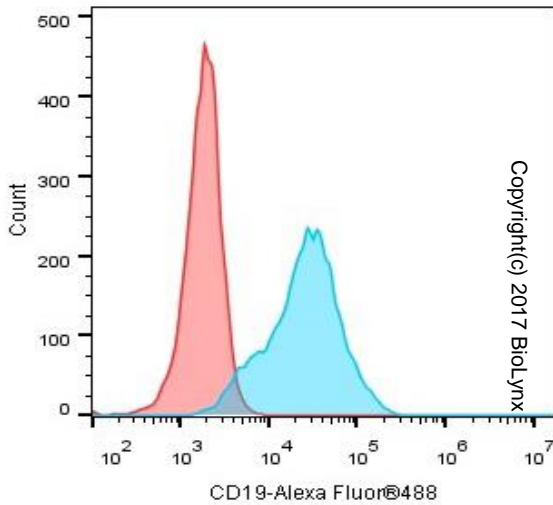
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of spleen tissue labelling CD19 with RR675 at 1:400. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.



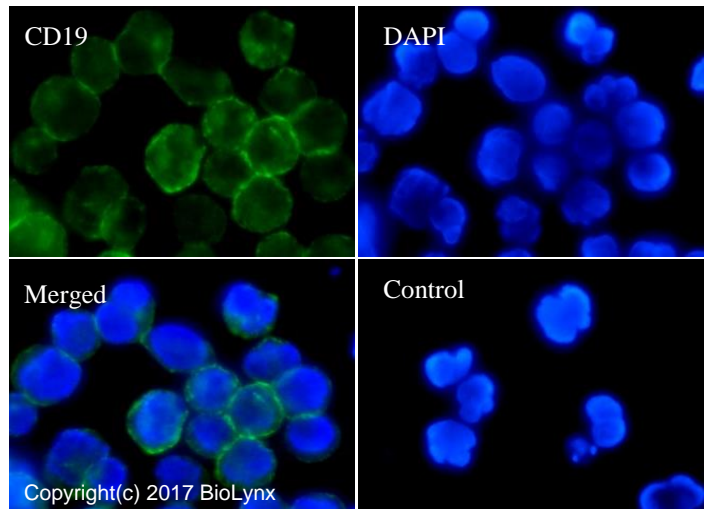
Anti-CD19 was immunoprecipitated from 0.4mg of Ramos lysate with RR675 at 1:50 dilution.
 2nd Ab:
 GAR HRP for IP 1:1,000

Lane 1: RR675 IP in Ramos whole cell lysate
 Lane 2: Rabbit IgG instead of RR675 in Ramos whole cell lysate
 Lane3: Ramos whole cell lysate, 10 µg(input)

Exposure: 60s



Overlay histogram showing Ramos cells stained with RR675 (Blue). The cells were fixed with 4% paraformaldehyde for 10 mins. The cells were then incubated in the antibody (RR675, 1:10 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 (Red) was used as a control.



RR675 staining CD19 in Raji cells by IF/ICC (Immunocytochemistry/immunofluorescence). 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 (1:50) 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).

Product QC'd by:



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