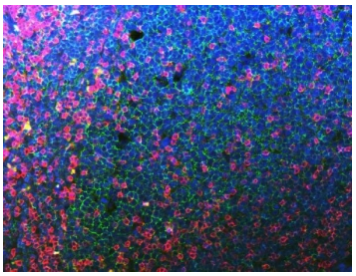
# CD20 Antibody 4D11 / Mouse Monoclonal [clone 4D11] (RQ7008)

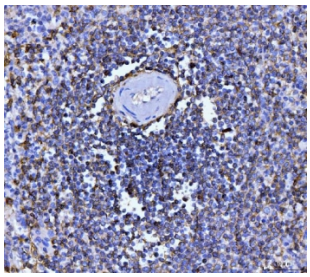
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ7008 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

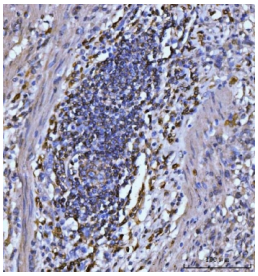
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Antigen affinity purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG2b |
| **Clone Name** | 4D11 |
| **Purity** | Antigen affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **UniProt** | P11836 |
| **Localization** | Predominantly cell surface with some cytoplasmic |
| **Applications** | Western blot: 0.5-1 ug/ml<br>Immunohistochemistry (FFPE): 2-5ug/ml<br>Immunofluorescence: 5ug/ml |
| **Limitations** | This CD20 Antibody 4D11 is available for research use only. |



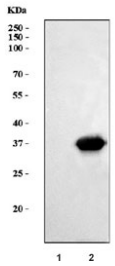
CD20 Antibody 4D11 IF. Immunofluorescent staining of FFPE human tonsil tissue with CD20 antibody (green), CD3e antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



IHC staining of FFPE human splenic rupture tissue with CD20 Antibody 4D11. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human gastric carcinoma tissue with CD20 Antibody 4D11. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.




Western blot testing of human 1) Jurkat and 2) Raji cell lysate with CD20 Antibody 4D11. Predicted molecular weight ~33 kDa.

## 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. What's more, this protein may be involved in the regulation of B-cell activation and proliferation.

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 CD20 Antibody 4D11 should be determined by the researcher.

## Immunogen

Recombinant human CD20 protein (amino acids M1-D261) 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.

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