

**CD20 Antibody (clone 4B4)**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS15830****Specification**

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**CD20 Antibody (clone 4B4) - Product Information**

|                   |                          |
|-------------------|--------------------------|
| Application       | WB, IHC-P                |
| Primary Accession | <a href="#">P11836</a>   |
| Reactivity        | Human                    |
| Host              | Mouse                    |
| Clonality         | Monoclonal               |
| Calculated MW     | 33kDa KDa                |
| Dilution          | WB~~1:1000<br>IHC-P~~N/A |

**CD20 Antibody (clone 4B4) - Additional Information****Gene ID** 931**Other Names**

B-lymphocyte antigen CD20, B-lymphocyte surface antigen B1, Bp35, Leukocyte surface antigen Leu-16, Membrane-spanning 4-domains subfamily A member 1, CD20, MS4A1, CD20

**Target/Specificity**

Human CD20

**Reconstitution & Storage**

Store at -20°C. Minimize freezing and thawing.

**Precautions**

CD20 Antibody (clone 4B4) is for research use only and not for use in diagnostic or therapeutic procedures.

**CD20 Antibody (clone 4B4) - Protein Information****Name** MS4A1**Synonyms** CD20**Function**

B-lymphocyte-specific membrane protein that plays a role in the regulation of cellular calcium influx necessary for the development, differentiation, and activation of B-lymphocytes (PubMed:<a href="http://www.uniprot.org/citations/12920111" target="\_blank">12920111</a>, PubMed:<a href="http://www.uniprot.org/citations/3925015" target="\_blank">3925015</a>, PubMed:<a href="http://www.uniprot.org/citations/7684739" target="\_blank">7684739</a>). Functions as a store-operated calcium (SOC) channel component promoting calcium influx after activation by the B-cell receptor/BCR (PubMed:<a href="http://www.uniprot.org/citations/12920111" target="\_blank">12920111</a>, PubMed:<a href="http://www.uniprot.org/citations/18474602" target="\_blank">18474602</a>).

target="\_blank">18474602</a>, PubMed:<a href="http://www.uniprot.org/citations/7684739" target="\_blank">7684739</a>).

#### Cellular Location

Cell membrane; Multi-pass membrane protein. Cell membrane; Lipid-anchor. Note=Constitutively associated with membrane rafts.

#### Tissue Location

Expressed on B-cells.

#### Volume

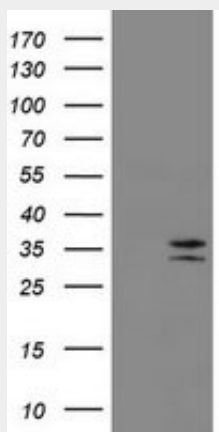
50 µl

### CD20 Antibody (clone 4B4) - Protocols

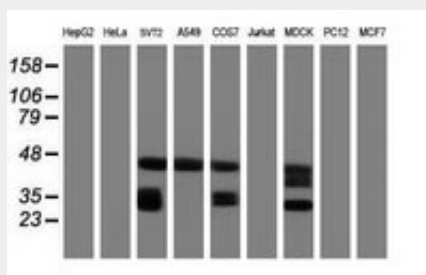
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

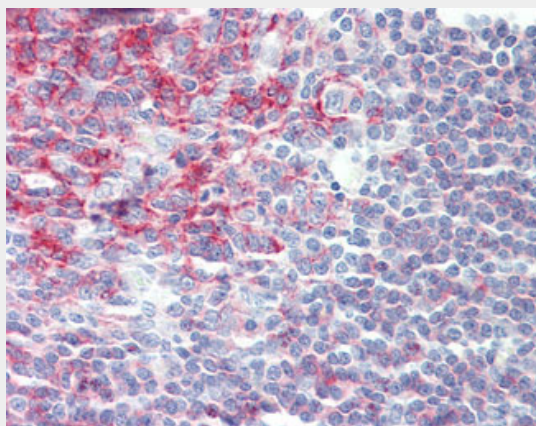
### CD20 Antibody (clone 4B4) - Images



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY MS4A1...



Western blot of extracts (35 ug) from 9 different cell lines by using anti-MS4A1 monoclonal...



Anti-CD20 antibody IHC staining of human tonsil.

#### **CD20 Antibody (clone 4B4) - Background**

This protein may be involved in the regulation of B-cell activation and proliferation.

#### **CD20 Antibody (clone 4B4) - References**

Stamenkovic I., et al. J. Exp. Med. 167:1975-1980(1988).  
Tedder T.F., et al. Proc. Natl. Acad. Sci. U.S.A. 85:208-212(1988).  
Einfeld D.A., et al. EMBO J. 7:711-717(1988).  
Tedder T.F., et al. J. Immunol. 142:2560-2568(1989).  
Ota T., et al. Nat. Genet. 36:40-45(2004).