

**CD20 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1136a**

**Specification**

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**CD20 Antibody - Product Information**

Application	<b>IHC, IF, WB</b>
Primary Accession	<a href="#">P11836</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG</b>

**Description**

CD20 (MS4A1, membrane-spanning 4-domains, subfamily A, member 1) is a member of the membrane-spanning 4A gene family. Members of this nascent protein family are characterized by common structural features and similar intron/exon splice boundaries and display unique expression patterns among hematopoietic cells and nonlymphoid tissues. The CD20 antigen is present on human pre B lymphocytes and on B lymphocytes at all stages of maturation, except on plasma cells. Low level expression of the CD20 antigen has been detected on normal T lymphocytes. The CD20 molecule is involved in regulation of B cell differentiation, presumably via its reported function as a Ca<sup>++</sup> channel subunit. And it is known to accelerate the G0 to G1 progression induced by IGF-1.

**Immunogen**

Synthetic peptide corresponding to aa (EPANPSEKNSPSTQY) of human CD20, conjugated to KLH.

**Formulation**

Ascitic fluid containing 0.03% sodium azide.

**CD20 Antibody - 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

**Dilution**

IHC~~1/200 - 1/1000

IF~~1/200 - 1/1000

WB~~1:500~~2000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CD20 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## CD20 Antibody - 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>, 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.

## CD20 Antibody - 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 - Images

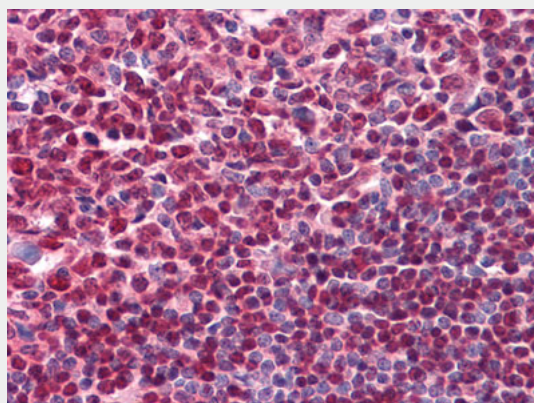


Figure 1: Immunohistochemical analysis of paraffin-embedded human Tonsil tissues using CD20 mouse mAb.

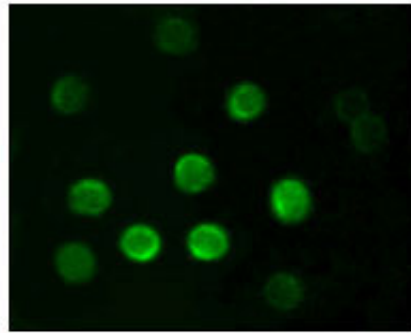


Figure 2: Immunofluorescence analysis of B lymphocytes using CD20 mouse mAb.

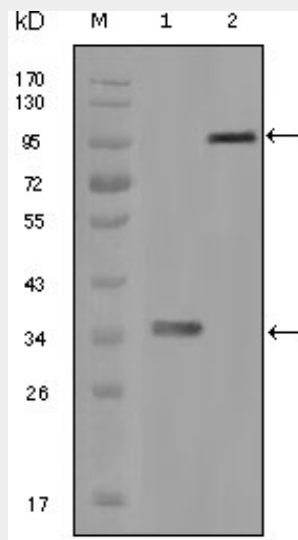


Figure 1: Western blot analysis using HCK mouse mAb against truncated HCK recombinant protein (1) and full-length HCK-GFP transfected CHO-K1 cell lysate (2).

### CD20 Antibody - References

1. Byar K. Semin Oncol Nurs. 2004, Feb, 20 (1 Suppl 1):20-5. Review.
2. Reiners KS. Hansen HP. Krüssmann A. et al. Immunology. 2004, Jun, 112(2):228-36.