

# CD20 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1136a

## Product Information

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<b>Application</b>	IHC, ICC, E
<b>Primary Accession</b>	<a href="#">P11836</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	3E9D3C1G3
<b>Isotype</b>	IgG
<b>Calculated MW</b>	33077
<b>Description</b>	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.
<b>Immunogen</b>	Synthetic peptide corresponding to aa (EPANPSEKNSPSTQY) of human CD20, conjugated to KLH.
<b>Formulation</b>	Ascitic fluid containing 0.03% sodium azide.

## Additional Information

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<b>Gene ID</b>	931
<b>Other Names</b>	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
<b>Dilution</b>	IHC~~1/200 - 1/1000 ICC~~N/A E~~N/A
<b>Storage</b>	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.
<b>Precautions</b>	CD20 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	MS4A1
<b>Synonyms</b>	CD20
<b>Function</b>	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="#">12920111</a> , PubMed: <a href="#">3925015</a> , PubMed: <a href="#">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="#">12920111</a> , PubMed: <a href="#">18474602</a> , PubMed: <a href="#">7684739</a> ).
<b>Cellular Location</b>	Cell membrane; Multi-pass membrane protein. Cell membrane; Lipid-anchor. Note=Constitutively associated with membrane rafts.
<b>Tissue Location</b>	Expressed on B-cells.

## References

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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.

## Images

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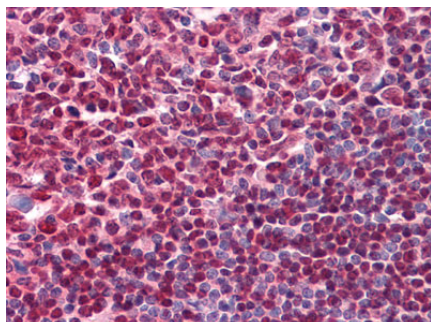


Figure 1: Immunohistochemical analysis of paraffin-embedded human Tonsil tissues using CD20 mouse mAb.

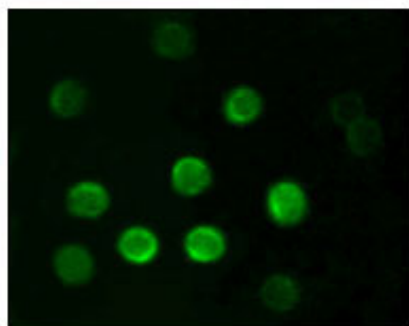
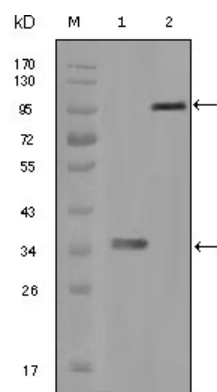


Figure 2: Immunofluorescence analysis of B lymphocytes using CD20 mouse mAb.

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).



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.