



**DESCRIPTION**

<b>Target:</b>	CD20
<b>Target aliases:</b>	MS4A1, Bp35, FMC7, B1, LEU-16, CVID5, S7
<b>Fc isotype:</b>	Mouse IgG2a
<b>Membrane proteome specificity:</b>	Monospecific for 6,000 membrane proteins tested
<b>Species reactivity:</b>	Human (others untested)
<b>Epitope:</b>	
<b>Fc modifications:</b>	C-terminal Avitag <sup>1</sup> , disabled Fc-γ receptor binding <sup>2</sup>
<b>Source:</b>	Recombinant CHO expression; purified by Protein A chromatography
<b>Formulation:</b>	Endotoxin Free PBS pH 7.4, sterile-filtered
<b>Concentration:</b>	1 mg/ml

1. A peptide tag that can be biotinylated in vitro using the biotin ligase enzyme (BirA).
2. Mutated Fc-γ receptor binding site to minimize non-specific antibody binding to endogenously-expressed Fc-γ receptors on target cells.

**CD20 TARGET INFORMATION**

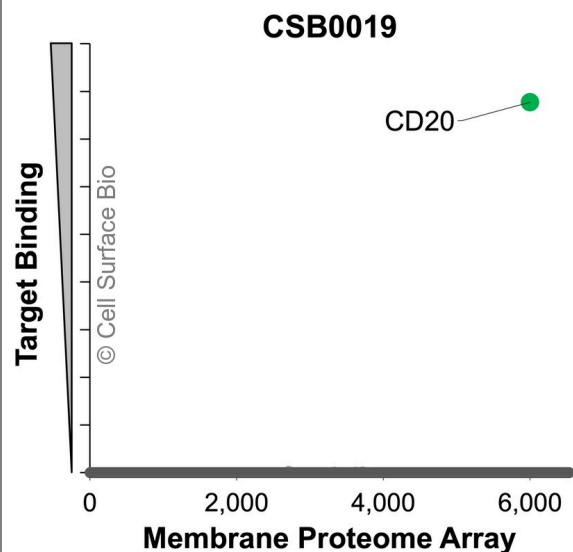
CD20 is a B-lymphocyte membrane protein that is part of the membrane-spanning 4A gene family. CD20 is involved in regulating calcium influx, which is important for the development and differentiation of B-cells into plasma cells. (NCBI Gene: 931, UniProtKB/Swiss-Prot: P11836). Other names: MS4A1, Bp35, FMC7, B1, LEU-16, CVID5, S7

**SHIPPING AND STORAGE**

<b>Shipping:</b>	Shipped at ambient temperature. Store at 4°C.
<b>Stability &amp; Storage:</b>	Stable for 12 months from date of receipt when stored at 4°C. Avoid repeated freeze-thaw cycles.

**VALIDATION DATA**

**Membrane Proteome Specificity**



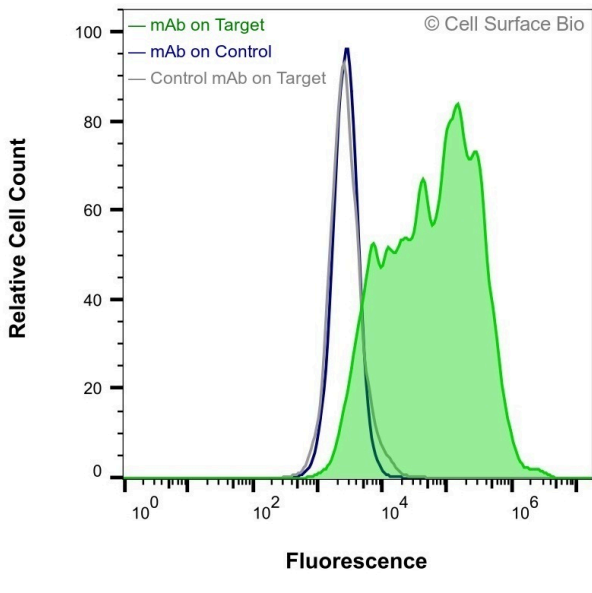
The specificity of CD20 Monoclonal Antibody (CSB0019) was tested on the Membrane Proteome Array™ and shown to be specific for human CD20.

The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed human cells to ensure native conformation and post-translational modifications. The Membrane Proteome Array™ represents the industry standard for determining the binding specificity of antibodies and other protein ligands.

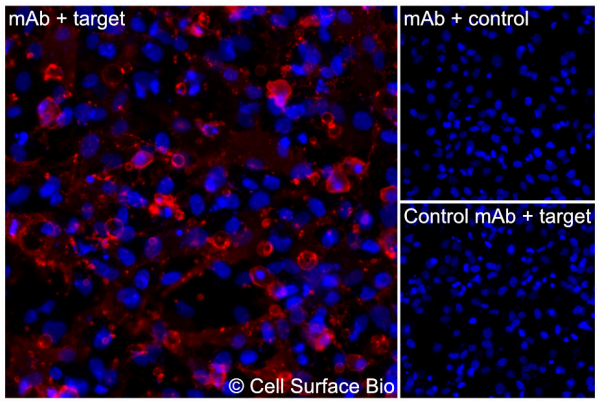
**Applications**  
Flow Cytometry, Extracellular

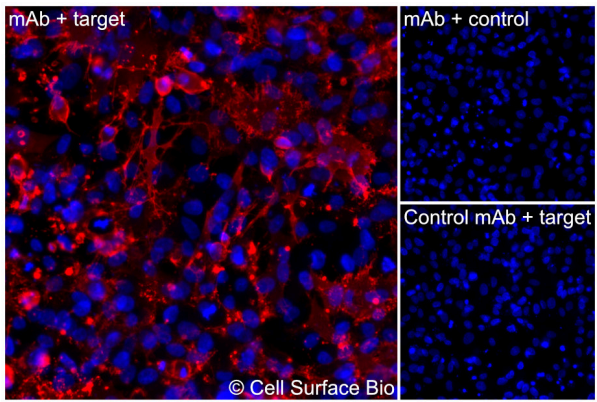
**Conditions**  
Live, Unpermeabilized

**Recommended concentration**  
1 µg/ml



HEK-293F cells transiently transfected with human CD20 were stained with CD20 Monoclonal Antibody (CSB0019)(green) or isotype control antibody (gray), followed by AlexaFluor 647-conjugated anti-mouse IgG secondary antibody. HEK-293F cells transiently transfected with an empty control vector were also stained with CD20 Monoclonal Antibody (CSB0019)(blue).

Applications	Conditions	Recommended concentration
Immunofluorescence, Extracellular	Fixed 4% paraformaldehyde	1 µg/ml
		
<p>(A) JS-1 cells transiently transfected with human CD20 were stained with CD20 Monoclonal Antibody (CSB0019) followed by AlexaFluor 647 anti-mouse IgG secondary antibody (red) and DAPI (blue). (B) JS-1 cells transiently transfected with an empty control vector stained with CD20 Monoclonal Antibody. (C) Isotype control: JS-1 cells transfected with human CD20 and stained with control MAb.</p>		

Applications	Conditions	Recommended concentration
Immunofluorescence, Intracellular	Fixed 4% paraformaldehyde, Permeabilized 0.1% Triton X-100	1 µg/ml
		
<p>(A) JS-1 cells transiently transfected with human CD20 were permeabilized and stained with CD20 Monoclonal Antibody (CSB0019) followed by AlexaFluor 647 anti-mouse IgG secondary antibody (red) and DAPI (blue). (B) JS-1 cells transiently transfected with an empty control vector stained with CD20 Monoclonal Antibody. (C) Isotype control: JS-1 cells transfected with human CD20 and stained with control MAb.</p>		