



# Mouse Anti-Mouse CD20 Monoclonal Antibody, clone 18B12 [Functional Grade] (CABT-Z488M)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	This reformatted mouse antibody was made using the variable domain sequences of the original Mouse IgG1 format.
<b>Immunogen</b>	CD20-transfected cell lines and CD20-peptide-keyhole limpet hemocyanin conjugate.
<b>Isotype</b>	IgG2a, κ
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Mouse
<b>Clone</b>	18B12
<b>Purification</b>	Protein A purified
<b>Conjugate</b>	Functional Grade
<b>Applications</b>	Depletion, FC, FA, WB, IF
<b>Format</b>	Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	5 mg
<b>Buffer</b>	PBS only. Endotoxin Level<0.5 EU/mg by the LAL method.
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C long term. Avoid freeze / thaw cycle. To ensure optimal storage and prevent microbial contamination, only open and dispense under sterile conditions.

## BACKGROUND

### Introduction

CD20 is a cell surface 33-37 (depending on the degree of phosphorylation) kDa non-glycosylated surface phosphoprotein expressed on mature and most malignant B cells, but not stem cells or plasma cells. Low number of the CD20 has been also detected on a subpopulation of T lymphocytes and it can be expressed on follicular dendritic cells. Its expression on B cells is synchronous with the expression of surface IgM. CD20 regulates transmembrane calcium conductance (probably functioning as a component of store-operated calcium channel), cell cycle progression and B-cell proliferation. CD20 serves as a useful target for antibody-mediated therapeutic depletion of B cells, as it is expressed at high levels on most B-cell malignancies, but does not become internalized or shed from the plasma membrane following mAb treatment.

### Keywords

MS4A1;B1;Bp35;CD20;CVID5;LEU-16

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## GENE INFORMATION

### Gene Name

Ms4a1

### Entrez Gene ID

[12482](#)

### UniProt ID

[P19437](#)

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